DOCUMENT RESUME

ED 195 449	SE 033 672

TITLE	Water Quality Instructional Resources Information System (IRIS): A Compilation of Abstracts to Water Quality and Water Resources Materials. Supplement II (1980).
INSTITUTION	Environmental Protection Agency, Columbus, Ohio.
SPONS AGENCY	Environmental Protection Agency, Washington, D. C.: Ohio State Univ., Columbus, Ohio. Information Reference Center for Science, Mathematics, and Environmental Education.
PUB DATE	Mar 80
NOTE	263p.: For related documents, see SE 033 639, SE 033 684 and ED 182 111.
AVAILABLE FROM	EPA Information Dissemination Project, 1200 Chambers Rd., 3rd Floor, Columbus, OH 43212 (subscription $12.00, $4.00 each).
EDRS PRICE	MF01/PC11 Plus Postage.
DESCRIPTORS	*Audiovisual Aids: Environmental Education: *Information Dissemination: *Instructional Materials: Pesticides: Technology: *Water Pollution: Water Resources
IDENTIFIERS	*Waste Water Treatment: Water Quality: *Water Supply

ABSTRACT

Presented are abstracts and indexes to selected print and non-print materials related to wastewater treatment and water quality education and instruction. Also included are procedures to illustrate how instructors and curriculum developers in the water quality control field can locate instructional materials to meet very general or highly specific requirements in their programs. (CO)

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ED195449

EPA Information Dissemination Project
1200 Chambers Road - Third Floor
Columbus, Ohio 43212

Water Quality Instructional Resources Information System

U.S. DEPARTMENT OF HEALTH,
EDUCATION & WELFARE
NATIONAL INSTITUTE OF
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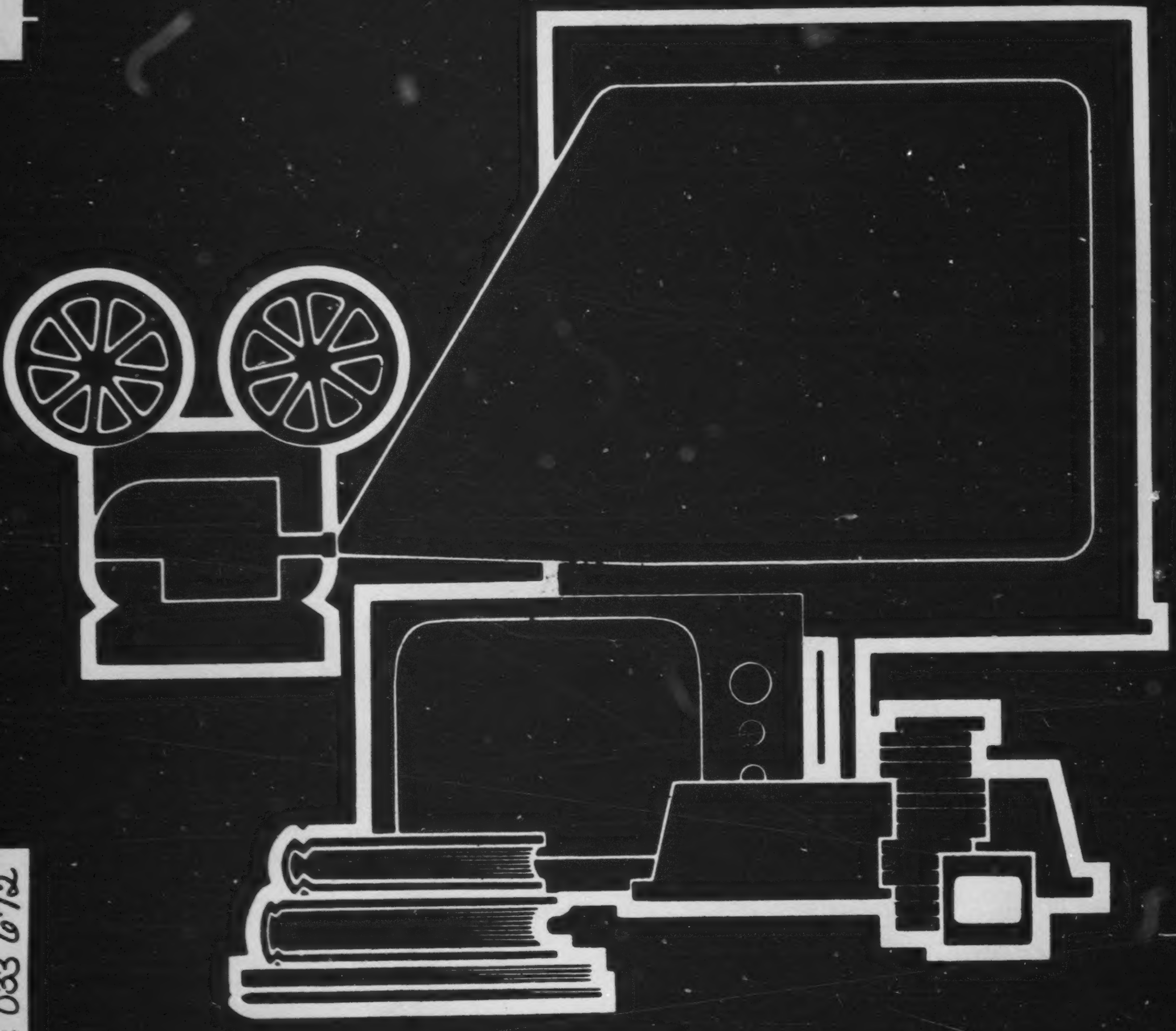

SE 033 672

WATER QUALITY INSTRUCTIONAL RESOURCES INFORMATION SYSTEM (IRIS)

A Compilation of Abstracts to Water Quality and Water Resources Materials

Supplement II (1980)
March, 1980

Compiled by the staff of the
EPA Information Dissemination Project
SMEAC Information Reference Center
1200 Chambers Road - 3rd Floor
Columbus, Ohio 43212

This publication was prepared pursuant to a grant with the U.S. Environmental Protection Agency. Materials cited are not endorsed by the U.S. Environmental Protection Agency nor The Ohio State University.

Sponsored by the United States Environmental Protection Agency, Office of Water Program Operations, National Training and Operational Technology Center, Cincinnati, Ohio and the SMEAC Information Reference Center, College of Education, The Ohio State University.

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Preface

This publication contains abstracts and indexes to selected materials related to wastewater treatment and water quality education and instruction. In addition some materials related to pesticides, hazardous wastes, and public participation are included. Also included are procedures to illustrate how instructors and curriculum developers in the water quality control field can locate instructional materials to meet very general or highly specific requirements in their programs.

Supplements to this publication will be issued periodically.

For further information about these materials contact:

EPA Information Dissemination Project
1200 Chambers Road
Columbus, Ohio 43212

Phone: 614-422-6717

I. General Information about Materials in IRIS.

A. What types of materials are included in IRIS?

The EPA Information Dissemination Project (water) acquires, reviews, indexes, and announces both print (books, modules, units, etc.) and non-print (films, slides, video tapes, etc.) materials related to water quality and water resources education and instruction.

Materials selected must be available from some source for announcement. When materials are not readily available we attempt to make the materials available through some national information service for easier acquisition. In a few cases the EPA Information Dissemination Project is the source of the materials.

B. How are materials entered into IRIS?

We request that people assist us in locating materials for the system. If you have materials you believe to be useful to others, please send two copies if possible to the:

EPA Information Dissemination Project
1200 Chambers Road
Columbus, Ohio 43212

Materials are reviewed by the project staff. Availability of the material is checked, and the materials are abstracted and indexed. The abstract describes the contents of the material. The index terms (descriptors) are concepts or terms used to describe the contents and the form of the document. (See the Subject Index for a listing of those that have been used.) The index terms are useful for locating materials manually, such as with this compilation, and also by computer.

When items are processed they are entered on the IRIS (water) computer tape. This tape is maintained by the EPA Information Dissemination Project at The Ohio State University and is used for producing tapes for other information systems, publications, and for computer searches conducted at The Ohio State University.

C. How can a user locate materials in IRIS?

1. All materials placed in IRIS (water) Collection.

   Materials entered into the IRIS (water) collection can be located in two ways: (1) by manual search of this compilation and similar ones to follow and (2) by computer.

   The first compilation contained resumes of selected materials processed for the previous IRIS (water) collection and resumes of selected materials of items added to the IRIS (water) collection. A limited number of copies of the compilation in paper copy and microfiche are available free of charge as long as the supply lasts from the EPA Information Dissemination Project. After the free copies of the compilations are gone, copies will be available for purchase from the EPA Information Dissemination Project.

Quarterly updates of the compilation are available by subscription on a yearly basis beginning November, 1979. Information regarding an annual subscription to IRIS (water) Quarterly Compilations can be obtained by writing to the EPA Information Dissemination Project. A subscription to the quarterly supplements for 1979-80 is $12.00 (within the U.S.). Price to Canada is $14.00. Prices in other countries is $20.00. Separate quarterly supplements are $4.00 each.

The compilation and the quarterly supplements can be scanned and the subject index can be used for manual searches.

Computer tapes of the IRIS (water) collection can also be searched by both batch and on-line computer searches. The IRIS tapes are available for purchase from the SMEAC Information Reference Center. In addition, the IRIS tapes are available for searching through the Bibliographic Retrieval Services, Inc., (BRS). Any search service that currently subscribes to BRS is able to search the IRIS data base by on-line techniques. Individuals or agencies with computer terminals and telephone connection equipment can subscribe to BRS and do their own searches if they desire. Current plans are to update the IRIS tapes every three months.

Information regarding BRS may be obtained by writing or phoning BRS, Corporation Park, Building 702, Scotia, NY 12302, (518) 374-5011.

Plans are being made to mount IRIS tapes with other on-line vendors. Information regarding this service will be announced in a future EPA IRC Bulletin and in mailings from the EPA Information Dissemination Project.

2. Materials placed in the Educational Resources Information System (ERIC)

A number of the materials processed for the IRIS (water) system are entered into the ERIC system and announced in Resources in Education (RIE). Resources in Education (RIE) is published monthly and is available from:

Superintendent of Documents
U.S. Government Printing Office
Washington, DC 20402

The current price is listed in the most recent issue of RIE. Check if a college or university library close to you has a copy. If they do not contact the EPA Information Dissemination for assistance.

Many libraries subscribe to RIE. Materials announced in RIE can be searched manually each month by scanning RIE or by checking the index terms in the back of each issue. Materials announced in RIE can be searched by computer also. ERIC computer tapes may be purchased outright, but most users of the tapes gain access to them through three major database vendors, Lockheed (Dialog), Systems Development Corporation (Orbit), and Bibliographic Retrieval Services. For the addresses of search services in your state that can search these databases, contact the:

EPA Information Dissemination Project
1200 Chambers Rd., Room 310
Columbus, Ohio 43212

Most of the materials announced in RIE are available on microfiche (microfilm) at over 700 sites throughout the United States and the world. Users can view these materials on site at many locations to identify what they believe will be useful to them at no cost. Microfiche copies (or in most cases Xerox copies) can be ordered through the ERIC Document Reproduction Service. The address and order information is in the back of each issue of RIE. Xerox copies of many items related to water quality and resource education and training can also be ordered through the EPA Information Dissemination Project for 3¢ per page + $1.00 per document.

For information about locations of ERIC microfiche sites in your state, contact the EPA Information Dissemination Project.

A number of journal articles processed for the IRIS (water) system are entered into the ERIC system and announced in Current Index to Journals in Education (CIJE).

Current Index to Journals in Education is published monthly and is available from:

ORYX Press
3930 East Camelback Road
Phoenix, Arizona 85018

Many libraries subscribe to CIJE. Materials announced in CIJE can be searched manually each month by scanning CIJE or by checking the index terms in the back of each issue. Materials announced in CIJE can be searched by computer also. Refer to the previous discussion of RIE concerning computer searches.

Materials announced in CIJE can be located in journals at many university libraries.

Many of the articles can be obtained from University Microfilms. Current prices are $6.00 for articles published before January 1976 and $4.00 for articles published after January 1976. For further information write to:

UMI Article Reprint Department
300 North Zeeb Road
Ann Arbor, Michigan 48106

II. How to Use the Compilation

A. Description of Information in Resumes

Each resume is listed by EW number in numerical order in the resume section. Two samples of resumes are provided to explain the data fields in the resumes. Sample resume #1 is a sample resume of an item not entered in ERIC. Sample resume #2 is a sample resume of an item entered into ERIC; a few additional data elements are in these resumes and are explained.

1. Sample resume of materials not entered into ERIC

   a. IRIS NUMBER: EW004324
   b. PUBLICATION DATE: AUG 78
   c. TITLE: FORESTRY AND NATURAL RESOURCES: FORESTRY AND WATER QUALITY; POLLUTION CONTROL PRACTICES.
   d. PERSONAL AUTHOR: POPE, P. E.
   e. DESCRIPTOR: *EROSION; *FORESTRY; GUIDELINES; *MANAGEMENT; *NONPOINT SOURCE POLLUTION; NUTRIENTS; OPERATIONS (LOGGING); PESTICIDES; *SILVICULTURE; THERMAL POLLUTION; *WATER POLLUTION CONTROL; *WATER QUALITY

   f. DESCRIPTIVE NOTE: 6P
   g. ABSTRACT: THIS BULLETIN DESCRIBES PREVENTION AND REDUCTION MEASURES TO CONTROL WATER POLLUTION RESULTING FROM FORESTRY ACTIVITIES. LISTED ARE POLLUTION PREVENTION PRACTICES AND REDUCTION PRACTICES RELATING TO WATER QUALITY OR WATER POLLUTION. TOPIC AREAS DISCUSSED INCLUDE THE CONTROL OF NUTRIENT POLLUTION THROUGH TREATMENT OF FOREST RESIDUES, PESTICIDE PRACTICES, AND CONTROL OF THERMAL POLLUTIONS. PRESENTED IN TABULAR FORM ARE THE PRINCIPLE TYPES OF REDUCTION PRACTICES FOR EROSION CONTROL.

   h. AVAILABILITY: PURDUE UNIVERSITY, COOPERATIVE EXTENTION SERVICE, WEST LAFAYETTE, IN 47907

   a. IRIS NUMBER -- this is the identification number sequentially assigned to materials as they are processed. Gaps in numbers mean that some items have been deleted, are being processed to add new information, or have been delayed in processing for some reason.

   b. PUBLICATION DATE -- date material was published according to information on the material.

   c. TITLE

   d. PERSONAL AUTHOR -- person or persons who wrote, compiled, or edited the material. Up to two personal authors can be listed.

   e. DESCRIPTOR -- subject terms which characterize substantive contents and form of the materials. The major terms are preceded by an asterisk. Terms used to index all resumes in this compilation can be reviewed in the Subject Index.

   f. DESCRIPTIVE NOTE -- various items of information may be contained in this section. For print materials the number of pages is usually listed.

g. ABSTRACT -- some early materials entered into IRIS did not have abstract information. All materials currently being entered into IRIS have an informative abstract that describes the contents of the item.

h. AVAILABILITY -- information in this field indicates where the material can be obtained and the price of the material quoted the last time information was received from the source. Please note: Prices of nearly all materials are subject to changes and may not be accurate at the time a person orders a specific item.

2. Sample resume of material entered into ERIC (Resources in Education)

Item entered into ERIC (Resources in Education) will have a few additional data fields.

IRIS NUMBER: EW002998
a. ERIC NUMBER: ED151236
PUBLICATION DATE: SEP 77
TITLE: CHLORINATION. TRAINING MODULE 2.300.2.77.
INSTITUTION CODE: BBB08399
SPONSORING AGENCY CODE: BBB15379; FGK21436
DESCRIPTOR: *CHEMISTRY; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; SECONDARY EDUCATION; *TEACHING GUIDES; *UNITS OF STUDY; WATER POLLUTION CONTROL; *CHLORINATION; *WASTE WATER TREATMENT; WATER TREATMENT
b. EDRS PRICE: EDRS PRICE MF-$0.83 HC-$3.50 PLUS POSTAGE
DESCRIPTIVE NOTE: 60P. FOR RELATED DOCUMENTS, SEE SE 024 025-046
c. ISSUE: RIEJUL78
ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH CHLORINE. THE REASONS FOR CHLORINATION AND SAFE OPERATION AND MAINTENANCE OF GAS CHLORINE, DRY CALCIUM HYPOCHLORITE AND LIQUID SODIUM HYPOCHLORITE CHLORINATION SYSTEMS FOR WATER SUPPLY AND WASTEWATER TREATMENT FACILITIES ARE GIVEN. INCLUDED ARE OBJECTIVES, INSTRUCTOR GUIDES, STUDENT HANDOUTS AND TRANSPARENCY MASTERS. THE MODULE CONSIDERS PURPOSES OF CHLORINATION, PROPERTIES OF CHLORINE, METHODS OF CHLORINATION, SAFETY, MAINTENANCE OF CHLORINATION UNITS AND INTERPRETATION OF TEST RESULTS. (AUTHOR/RH)
d. INSTITUTION NAME: KIRKWOOD COMMUNITY COLL., CEDAR RAPIDS, IOWA.
SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

a. ERIC NUMBER -- the ED number indicates the document has been processed and entered into Resources in Education. This identification number is the number to use when ordering a document or when requesting information about a document.

b. EDRS PRICE -- if material is available through the ERIC Document Reproduction Service, the price of the material when it was entered into the ERIC system and the form of the material is indicated. "MF" means microfiche; "HC" means Xerox copy. Prices are subject to change. Current prices of microfiche and paper copies are listed in the back of each issue of Resources in Education; consult the latest monthly issue for current prices. Information about ordering items can also be obtained by contacting:

ERIC Document Reproduction Service (EDRS)
P.O. Box 190
Arlington, Virginia 22210

Telephone: 703-841-1212

Items that are available on microfiche (MF) are contained in microfiche collections at over 700 sites where they can be read. For information on the microfiche locations in your state contact the EPA Information Dissemination Project.

c. ISSUE -- this indicates the monthly issue of Resources in Education in which the resume appeared.

d. INSTITUTION NAME -- organization where document originated.

B. How to Locate Desired Materials

Users can identify materials of interest by scanning the resume listings, or using the Subject Index, Author Index, Institution Index, or Title Index.

1. Subject Index

The Subject Index is designed to enable the user to search for information on either a broad subject or a narrow information concern. An EW number is included for each item listed under the subject heading. The EW number refers to the abstract entry in the resume section where complete bibliographic information, an abstract of the item, and availability information can be found.

A user can also coordinate a search by checking EW numbers that appear under two or more subject headings. For example, you could check all the EW numbers under Water Treatment and all the EW numbers under Films. EW numbers included under both subject headings would include information relevant to Water Treatment that were films. EW numbers under wastewater treatment and laboratory techniques would provide a list of materials related to laboratory techniques and to wastewater treatment. Similar techniques could be used to identify other information desired.

Users with ERIC microfiche should check the resume entry. If the document is available on microfiche from the ERIC Document Reproduction Service, the availability will be indicated by "MF" on the resume by "EDRS Price." This means libraries with ERIC microfiche collections should have the document on microfiche.

If you want a document available through the ERIC Document Reproduction Service (EDRS) see the section on ordering documents.

2. Author Index

If you desire to locate a document by the name of the author, you can use the Author Index. EW numbers are provided under the author in the Author Index as in the Subject Index. Some documents do not have a listed author; hence they are not listed in this index.

3. Title Index to the IRIS Compilation (Not included in the compilation)

The Title Index to the IRIS Compilation is a separate document. It is available from the EPA Information Project for $5.00 prepaid or $5.00 plus postage if invoiced. Supplements will be available on an annual basis for $5.00 beginning in January, 1981.

The Title Index contains all titles in the compilation listed in alphabetical order. If you are searching for material and know the title, you can check the title list to determine if the item is in the IRIS data base. Each title includes the IRIS resume number. The number can be found in the resume section of the compilation.

III. Correcting an Existing IRIS Record

The IRIS data base will be updated on a quarterly basis. Corrections will be made to the data base at those times. You can help improve IRIS by sending corrections for items you find to be in error.

We request that you duplicate (copy) the resume from the compilation, mark the information you believe to be wrong (or incomplete), and send the marked resume to:

EPA Information Dissemination Project
1200 Chambers Road, Rm. 310
Columbus, OH 43212

Corrections of errors will occur in the IRIS tapes at the next update after comments are received.

If you have difficulty obtaining materials from the listed source in the AVAILABILITY section of the resume, please let us know. We will contact the souces to verify whether the materials are available, but your assistance will provide corrections between annual availability checks.

If you are the supplier of materials in IRIS, please let us know if you remove a product from your list, modify a product on your list, or change the price of the product.

IV. Requests to Receive Information about IRIS and the IRC Bulletin

Information regarding IRIS, materials in IRIS, and modifications in the system will be announced in the IRC Bulletin. The Bulletin is issued about six times a year as information is available.

If you are not on the mailing list write to the EPA Information Dissemination Project. Limited numbers of some back issues are still available.

If you need information about IRIS you can also phone 614-422-6717 with your questions.

V. Requests for Assistance in Using IRIS

A. Assistance in use of IRIS manuals.

If you need help in using the IRIS manuals phone 614-422-6717 or write to the EPA Information Dissemination Project. Staff are normally available from about 8:30 a.m. to 4:30 p.m. Eastern time to answer your questions.

B. Assistance in accessing IRIS by computer

1. Conducting searches.

   See section VIII.

2. Subscribing to BRS, Inc. for computer searching of IRIS

   Contact: Bibliographic Retrieval Services, Inc.
   Corporation Park, Building 702
   Scotia, New York 12302

   Phone: 518-374-5011

3. Contacting a computer search service (an agency that will conduct a search for you, usually for a fee)

   The EPA Information Dissemination Project maintains a list of agencies that can conduct searches. Most charge a fee, though some are free to qualified users in a limited geographical area.

   Phone or write to obtain information for your area.

VI. How to Locate Other Relevant Educational Materials

A number of people have requested information related to such areas as management, basic skills (reading, mathematics, writing) human relations, contract negotiations, and other topics. The EPA Information Dissemination Project plans to develop some user service products in selected areas in 1980.

Another excellent source of information for many educational concerns is the ERIC System.

ERIC is a national information system designed and developed by the U.S. Office of Education, and now supported and operated by the National Institute of Education (NIE), for providing ready access to descriptions of exemplary programs, research and development efforts, and related information that can be used in developing more effective educational programs.

There are 16 Clearinghouses in the nationwide ERIC network. Each specializes in a different, multi-discipline, educational area. Each searches out pertinent documents.

The ERIC Clearinghouses have responsibility within the network for acquiring the significant educational literature within their particular areas, selecting the highest quality and most relevant material, processing (i.e., cataloging, indexing, abstracting) the selected items for input to the data base, and also for providing information analysis products and various user services based on the data base.

The 16 ERIC Clearinghouses are listed on the next few pages, together with addresses, telephone numbers, and brief scope notes describing the areas they cover. You can contact them for assistance in locating information relevant to their scope notes.

A. ERIC Clearinghouse for Adult, Career, and Vocational Education
Ohio State University
Center for Vocational Education
1960 Kenny Road
Columbus, Ohio 43210
Telephone: (614) 486-3655

Career education, formal and informal at all levels, encompassing attitudes, self-knowledge, decision-making skills, general and occupational knowledge, and specific vocational and occupational skills; adult and continuing education, formal and informal, relating to occupational, family, leisure, citizen, organizational, and retirement roles; vocational and technical education, including new sub-professional fields, industrial arts, and vocational rehabiliation for the handicapped.

B. ERIC Clearinghouse on Counseling and Personnel Services
University of Michigan
School of Education Building, Room 2108
Ann Arbor, Michigan 48109
Telephone: (313) 764-9492

Preparation, practice, and supervision of counselors at all educational levels and in all settings,theoretical development of counseling and guidance, use and results of personnel procedures such as testing, interviewing, disseminating, and analyzing such information, group work and case work; nature of pupil, student, and adult characteristics; personnel workers and their relation to career planning, family consultations, and student orientation activities.

C. ERIC Clearinghouse on Elementary & Early Childhood Education
University of Illinois
College of Education
Urbana, Illinois 61801
Telephone: (217) 333-1386

Prenatal factors, parental behavior; the physical, psychological, social, educational, and cultural development of children from birth through the primary grades; educational theory, research, and practice related to the development of young children.

D. ERIC Clearinghouse on Educational Management
University of Oregon
Eugene, Oregon 97403
Telephone: (503) 686-5043

Leadership, management, and structure of public and private educational organizations; practice and theory of administration; preservice and inservice preparation of administrators, tasks and processes of administration, methods and varieties of organization, organizational change, and social context of the organization.

Sites, buildings, and equipment for education; planning, financing, constructing, renovating, equipping, maintaining, operating, insuring, utilizing, and evaluating educational facilities.

E. ERIC Clearinghouse on Handicapped and Gifted Children
Council for Exceptional Children
1920 Association Drive
Reston, Virginia 22091
Telephone: (703) 620-3660

Aurally handicapped, visually handicapped, mentally handicapped, physically handicapped, emotionally disturbed, speech handicapped, learning disabilities, and the gifted; behavioral, psychomotor, and communication disorders, administration of special education services; preparation and continuing education of professional and paraprofessional personnel; preschool learning and development of the exceptional; general studies on creativity.

F. ERIC Clearinghouse on Higher Education
George Washington University
One Dupont Circle, Suite 630
Washington, DC 20036
Telephone: (202) 296-2597

Various subjects relating to college and university students, college and university conditions and problems, college and university programs; curricular and instructional problems and programs, faculty, institutional research; federal programs, professional education (medical, law, etc.), graduate education, university extension programs, teaching-learning, planning, goverance, finance, evaluation, interinstitutional arrangements, and management of higher educational institutions.

G. ERIC Clearinghouse on Information Resources
Syracuse University
School of Education
Syracuse, New York 13210
Telephone: (315) 423-3640

Management, operation, and use of libraries; the technology to improve their operation and the education, training, and professional activities of librarians and information specialists. Educational techniques involved in microteaching, systems analysis, and programmed instruction employing audiovisual teaching aids and technology, such as television, radio, computers, and cable television, communication satellites, microforms, and public television.

H. ERIC Clearinghouse for Junior Colleges
University of California
Powell Library, Room 96
Los Angeles, California 90024
Telephone: (213) 825-3931

Development, administration, and evaluation of public and private community junior colleges. Junior college students, staff, curricula, programs, libraries, and community services.

I. ERIC Clearinghouse on Languages and Linguistics
Center for Applied Linguistics
1611 North Kent Street
Arlington, Virginia 22209
Telephone: (703) 528-4312

Languages and linguistics. Instructional methodology, psychology of language learning, cultural and intercultural content, application of linguistics, curricular problems and developments, teacher training and qualifications, language sciences, psycholinguistics, theoretical and applied linguistics, language pedagogy, bilingualism, and commonly taught languages including English for speakers of other languages.

J. ERIC Clearinghouse on Reading and Communication Skills
National Council of Teachers of English
1111 Kenyon Road
Urbana, Illinois 61801
Telephone: (217) 328-3870

Reading, English, and communication skills, preschool through college. Educational research and development in reading, writing, speaking, and listening. Identification, diagnosis, and remediation of reading problems. Speech communication--forensics, mass communication, interpersonal and small group interaction, interpretation, rhetorical and communication theory, instruction development, speech sciences, and theater. Preparation of instructional staff and related personnel in these areas.

All aspects of reading behavior with emphasis on physiology, psychology, sociology, and teaching. Instructional materials, curricula, tests and measurement, preparation of reading teachers and specialists, and methodology at all levels. Role of libraries and other agencies in fostering and guiding reading. Diagnostic and remedial services in school and clinical settings.

K. ERIC Clearinghouse on Rural Education and Small Schools
New Mexico State University
Box 3AP
Las Cruces, New Mexico 88003
Telephone: (505) 646-2623

Education of Indian Americans, Mexican Americans, Spanish Americans, and migratory farm workers and their children; outdoor education; economic, cultural, social, or other factors related to educational programs in rural areas and small schools; disadvantaged of rural and small school populations.

L. ERIC Clearinghouse for Science, Mathematics, and Environmental Education
Ohio State University
1200 Chambers Road, Third Floor
Columbus, Ohio 43212
Telephone: (614) 422-6717

All levels of science, mathematics, and environmental education; development of curriculum and instructional materials; media applications; impact of interest, intelligence, values, and concept development upon learning; preservice and inservice teacher education and supervision.

M. ERIC Clearinghouse for Social Studies/Social Science Education
855 Broadway
Boulder, Colorado 80302
Telephone: (303) 492-8434

All levels of social studies and social science; all activities relating to teachers; content of disciplines; applications of learning theory, curriculum theory, child development theory, and instructional theory; research and development programs; special needs of student groups; education as a social science; social studies/social science and the community.

N. ERIC Clearinghouse on Teacher Education
American Association of Colleges for Teacher Education
One Dupont Circle, NW, Suite 616
Washington, DC 20036
Telephone: (202) 293-7280

School personnel at all levels; all issues from selection through preservice and inservice preparation and training to retirement; curricula; educational theory and philosophy; general education not specifically covered by Educational Management Clearinghouse; Title XI NDEA Institutes not covered by subject speciality in other ERIC Clearinghouses; all aspects of physical education.

O. ERIC Clearinghouse on Tests, Measurement, and Evaluation
Educational Testing Service
Princeton, New Jersey 08540
Telephone: (609) 921-9000 ext. 2176

Tests and other measurement devices; evaluation procedures and techniques; application of tests, measurement, or evaluation in educational projects or programs.

P. ERIC Clearinghouse on Urban Education
Box 40
Teachers College, Columbia University
525 W. 120th Street
New York, New York 10027
Telephone: (212) 678-3437

The relationship between urban life and schooling; the effect of urban experiences and environments from birth onward; the academic, intellectual, and social performance of urban children and youth from grade three through college entrance (including the effect of self concept, motivation, and other affective influences); education of urban, Puerto Rican and Asian American populations, and rural and urban black populations; programs and practices which provide learning experiences designed to meet the special needs of diverse populations served by urban schools and which build upon their unique as well as their common characteristics; structural changes in the classroom, school, school system, and community and innovative instructional practices which directly affect urban children and youth; programs, practices, and materials related to economic and ethnic discrimination, segregation, desegregation, and integration in education; issues, programs, practices, and materials related to redressing the curriculum imbalance in the treatment of ethnic minority groups.

Q. Educational Resources Information Center
Central ERIC
National Institute of Education
Washington, DC 20208
Telephone: (202) 254-5555

There are other sources of educational information in many states. Included are information dissemination units in the state departments of education, intermediate education units, and local education units. In many cases, a local school administrator or school librarian can help you locate assistance.

VII. How to Structure a Computer Search of IRIS

This explanation relates to the IRIS data base that can be searched on-line through Bibliographic Retrieval Services, Inc. As IRIS becomes available through other sources, information relevant to those services will be provided.

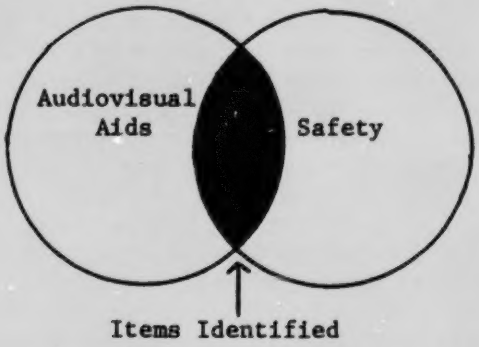
A few notes about the service are important. The following fields are searchable by computer: (1) IRIS Accession Number (EW number), (2) ERIC Accession Number (ED number), (3) Authors, (4) Institution (5) Title, (6) subject index terms, and (7) abstract.

If you submit a search of IRIS through BRS, the program will search for the words you select in three fields unless the searcher requests to limit the search. These fields are: (1) the title field, (2) the subject index field, and (3) the abstract. We recommend you use this feature especially for searches on specific terms. If you find more material than you want by this technique you can narrow the search to items that may have the most information on the topic by limiting the search to the subject index field.

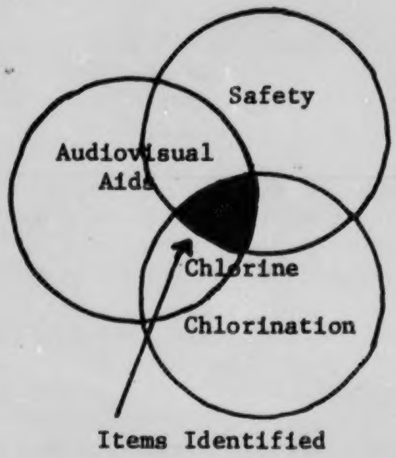
Several sample searches are listed.

A. Sample 1

If you want to locate audiovisual aids that relate to safety you would submit a search with audiovisual aids and safety. Materials that included the terms both audiovisual aids and safety in the title field, the abstract, and the subject index field would be identified by the computer.

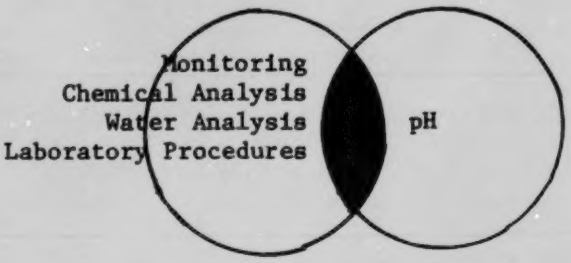

Audiovisual Aids
Safety
Items Identified

The computer program can tell you the number of items, the title of the items, or print the entire resume of each item. If you were primarily interested in audiovisual aids, safety, and chlorine you would submit a search of these three terms. You might want to include chlorides and chlorination as well as chlorine in the search. This search would identify materials that contained audiovisual aids, safety, and one or more of the words, chlorine, and chlorination.


Safety
Audiovisual Aids
Chlorine
Chlorination
Items Identified

B. Sample 2

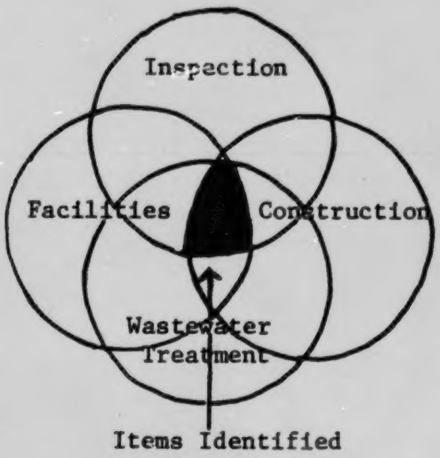
If you want to identify materials related to monitoring, you should include several related terms and the chemical, material, or situation that is being monitored. See the example below.


Monitoring
Chemical Analysis
Water Analysis
Laboratory Procedures
pH

This search would identify all the items that included any of the terms on the left and pH.

C. Sample 3

If you are interested in materials related to inspection and construction you could conduct a search of these two terms. The search would identify all materials that included both terms. If you were interested in only wastewater treatment facilities you could construct a search as diagrammed.


Inspection
Facilities
Construction
Wastewater
Treatment
Items Identified

This search would yield specific materials and demonstrates how a computer search can help you locate materials you want.

D. Use of the Subject Index

The subject index in the back of the compilation can be used to help you decide if you want to do a computer search. If there are relatively few entries, you can check the resumes in the resume section. If there is a large number of entries (perhaps 50 or more) you may want to use a computer search.

As the data base gets larger, you will find more entries for subject index terms and computer searching will offer more advantages.

The subject index can also be used to help you select words to include in a search. Words listed in the subject index are certain to be in the searchable fields. Therefore, selecting these terms to use in structuring a search will increase the probability of locating materials. Some words will appear in the title or abstract that are not included in the subject term field. Such words can be used to check if any materials are in the data base. If, however, you conduct a search with such a word it is usually best to include a synonym that is in the subject index.

VIII. How to Order Materials

The AVAILABILITY field in the resume indicates where materials can be obtained. A few of the sources are explained.

A. A number of audiovisual materials can be obtained on loan from the EPA National Training and Operational Technology Center, Cincinnati, Ohio 45268. They also offer a copy service to reproduce materials at a very reasonable price.

B. Some of the materials are available through the ERIC Document Reproduction Service. MF (microfiche) are 4" x 6" sheets of microfilm; up to 96 pages of text can be reproduced on one sheet. HC (paper copy) is a reproduction of the document in paper form at the original size.

Order forms for these materials can be obtained from:

ERIC Document Reproduction Service
P.O. Box 190
Arlington, Virginia 22210

C. The EPA Information Dissemination Project will provide xerox copies of materials that are not copyrighted for $1.00 per document plus $0.03 per page.

If you can not obtain materials that are listed or have difficulty obtaining materials, please contact the EPA Information Dissemination Project. We can provide assistance in obtaining materials from some sources. If materials become unavailable, we will remove them from the IRIS data base.

IX. USEPA
National Training and Operation Technology Center
Cincinnati, Ohio 45268

To fulfill national educational and training requirements, USEPA has organized the National Training and Operational Technology Center (NTOTC). NTOTC has the responsibility for planning, developing, conducting and evaluating USEPA's water pollution control training and education program. As an instructional resource, its purpose is to help regions, states, local governments and educational institutions to become knowledgeable about USEPA's goals, regulations, strategies, as well as the implications of USEPA programs which affect virtually everyone.

Activities encompass three categories: (1) instruction; (2) course development; and (3) information management.

Instruction--NTOTC offers a variety of training courses in water quality control. Such courses are taught at many locations, but most are presented at the Environmental Research Center in Cincinnati, Ohio. A current project will expand this effort to enable more environmental personnel to receive specialized instruction. Area training centers will soon act as satellites to the NTOTC program, offering similar courses and instructional support. Select universities with broad pollution control curricula will act as area training centers within a region. As a result, more pollution control personnel will have access to needed specialized training.

Since 1971, the NTOTC professional staff of chemists, biologists and engineers has presented nearly 350 courses to more than 8,000 students. Courses are offered throughout the year, and are designed to help participants understand current pollution control techniques and procedures. As USEPA regulations and policies are implemented, based in large part on USEPA research, courses are offered by NTOTC staff to upgrade knowledge and develop specific skills or procedures.

Some courses are conducted at wastewater treatment plants, enabling USEPA to work directly with plant personnel to improve treatment plant effluent. While working on site at treatment plants, staff can diagnose and discuss particular problems and can provide information on design and operation to many technicians within the local region.

Courses currently are offered in five general categories: wastewater treatment technology, treatment facility evaluation and inspection, water quality surveillance and monitoring, water quality analysis, and drinking water quality monitoring.

Students attend courses from all states, and from some foreign countries. The largest percentage represent federal, state, and municipal pollution control agencies. A relatively small number of college and university instructors attend these short courses which are typically one week in length. USEPA encourages more participation by the educational community, so that current skills and knowledge will be transmitted to students to enable them to deal with pollution control problems as they enter environmental occupations. Community college and university instructors may attend courses free of charge by following prescribed application procedures.

Course Development--NTOTC is active in the field of course development. As new educational and training needs are identified, appropriate instructional packages are developed. Almost all such development is based on current research and agency regulations. Materials include instructor guides, student manuals and supporting audiovisual materials. If USEPA's pollution control training programs are to be successfully implemented, college and university staff from various departments must cooperate and integrate these instructional activities within their curriculums; or students will not be adequately prepared, either theoretically or practically.

Information Management--The goal of USEPA's information management system is to support, in a comprehensive and systematic manner, those involved with pollution control education and training. A central location within the NTOTC facility is designed to provide a contact point and to coordinate assistance efforts and has been designated the Instructional Resources Center (IRC).

As the education and training community has become more aware of the types of programs operated by the IRC, requests for information have expanded dramatically. Many requests for assistance from instructors, information specialists, municipal water and wastewater treatment plant trainers, and representatives of government and business have been received.

Through the IRC, NTOTC maintains a central location to inventory, evaluate, catalog and disseminate instructional materials in the areas of water pollution control, water supply, and pesticides. Composed of several different but interrelated activities, it acts as a primary communications link between USEPA and educators at all post-secondary levels.

The IRC includes an audiovisual lending library housing slide/tape presentations, films and videotapes, all available for free, short-term loan. Most subject areas available are water quality-oriented.

Interested persons are invited to Cincinnati to use IRC facilities for reviewing tapes, slides, films, and other materials before deciding about purchases or curriculum development requirements. IRC staff assist visitors by determining the most appropriate ways to use the Center's resources, or in determining educational and training program requirements and available resources. During the past year, universities and state and local governments have been assisted with curriculum design, course materials selection, and audiovisual support efforts.

For more information on NTOTC write to the center at the following address:

National Training and Operational
Technology Center (NTOTC)
26 West St. Clair
Cincinnati, Ohio 45268

Telephone: (513) 684-7501

RESUME SECTION

IRIS ACCESSION NUMBER: EW004108
PUBLICATION DATE: AUG 76

TITLE: TROUBLESHOOTING O & M PROBLEMS IN WASTEWATER TREATMENT FACILITIES. STUDENT NOTEBOOK.

DESCRIPTOR: BEHAVIORAL OBJECTIVES; CHEMISTRY; *ENVIRONMENTAL TECHNICIANS; FLOW MEASUREMENT; *INSTRUCTIONAL MATERIALS; *JOB SKILLS; LABORATORY PROCEDURES; *MAINTENANCE; MANAGEMENT; *OPERATIONS (WASTEWATER); *POST SECONDARY EDUCATION; PRIMARY TREATMENT; *WASTEWATER TREATMENT; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 230P.

ABSTRACT: CONTAINED ARE THE STUDENT WORKBOOK MATERIALS FOR A 12 LESSON COURSE ON OPERATION AND MAINTENANCE PROBLEMS IN WASTEWATER TREATMENT PLANTS. THIS VOLUME IS A COMPANION TO THE INSTRUCTOR'S GUIDE AND CONTAINS THE INFORMANTION AND WORKSHEETS REQUIRED BY STUDENTS PARTICIPATING IN THE COURSE. LESSON TOPICS INCLUDE: (1) PRIMARY TREATMENT; (2) OXIDATION LAGOONS; (3) LABORATORY PRACTICES; (4) FLOW MEASUREMENT; (5) CHEMICAL ADDITIONS ; AND (6) MANAGEMENT BEHAVIOR.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($9.50)

INSTITUTION NAME: AMERICAN PUBLIC WORKS ASSOCIATION.

IRIS ACCESSION NUMBER: EW004109
PUBLICATION DATE: JUN 76

TITLE: EROSION AND SEDIMENT CONTROL. AUDIOVISUAL TRAINING PROGRAM INSTRUCTOR'S MANUAL.

PERSONAL AUTHOR: MILLS, THOMAS R.; AND OTHERS

DESCRIPTOR: *CERTIFICATION; CONSTRUCTION; ENVIRONMENTAL INFLUENCES; *EROSION CONTROL; *INSTRUCTIONAL MATERIALS; LAND USE; MANAGEMENT; NATURAL RESOURCES; *POST SECONDARY EDUCATION; *SOILS; *TECHNICIAN; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 85P.

ABSTRACT: THIS MANUAL PRESENTS A SERIES OF TECHNICAL PRESENTATIONS AND A CERTIFICATION PLAN FOR EROSION AND SEDIMENT CONTROL SPECIALISTS. THESE MATERIALS ARE DESIGNED TO PROVIDE AN EFFECTIVE EDUCATION PROGRAMFOR QUALIFYING CONSTRUCTION PERSONNEL AND OTHERS TO PASS A CERTIFICATION EXAMINATION. THE 13 LESSONS COVER SUCH TOPICS AS: (1) SOILS; (2) RAINFALL-RUNOFF RELATIONSHIPS; (3) PLANT MATERIALS; (4) CONTROL DURING CONSTRUCTION; (5) SOIL STABILIZATION; (6) WOODED SITE DEVELOPMENT; AND (7) FOREMAN-INSPECTOR RESPONSIBILITIES. EACH LESSON CONTAINS IDEAS FOR DISCUSSION AND ANSWERS TO QUESTIONS WITHIN THE LESSON.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($6.00)

IRIS ACCESSION NUMBER: EW004110
PUBLICATION DATE: JUN 76

TITLE: EROSION AND SEDIMENT CONTROL. AUDIOVISUAL TRAINING PROGRAM INSTRUCTORS'S WORKBOOK.

PERSONAL AUTHOR: MILLS, THOMAS R.; AND OTHERS

DESCRIPTOR: AUDIOVISUAL AIDS; *CERTIFICATION; CONSTRUCTION; ENVIRONMENTAL INFLUENCES; *EROSION CONTROL; *INSTRUCTIONAL MATERIALS; *LAND USE; *MANAGEMENT; NATURAL RESOURCES; POST SECONDARY EDUCATION; *SOILS; *TEACHING GUIDES; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 85P.

ABSTRACT: THIS STUDENT WORKBOOK PRESENTS A SERIES OF TECHNICAL PRESENTATIONS FOR EROSION AND SEDIMENT CONTROL SPECIALISTS. THESE MATERIALS ARE DESIGNED TO PROVIDE AN EFFECTIVE EDUCATION FOR QUALIFYING CONSTRUCTION PERSONNEL AND OTHERS TO PASS A CERTIFICATION EXAMINATION. THE 13 LESSONS COVER SUCH TOPICS AS: (1) SOILS; (2) RAINFALL-RUNOFF RELATIONSHIPS; (3) PLANT MATERIALS; (4) CONTROL DURING CONSTRUCTION; (5) SOIL STABILIZATION; (6) WOODED-SITE DEVELOPMENT; AND (7) FOREMAN-INSPECTOR RESPONSIBILITIES. EACH LESSON CONTAINS IDEAS FOR DISCUSSION AND REVIEW QUESTIONS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($12.50)

IRIS ACCESSION NUMBER: EW004111

PUBLICATION DATE: NOV 77

TITLE: METHODS FOR THE DETERMINATION OF CHEMICAL CONTAMINANTS IN DRINKING WATER. PARTICIPANTS HANDBOOK.

DESCRIPTOR: *CHEMICAL ANALYSIS; FLUORIDES; *INSTRUCTIONAL MATERIALS; *INTERIM DRINKING WATER; JOB SKILLS; LEGISLATION; *LABORATORY PROCEDURES; METALS; NITRATES; ORGANIC CHEMISTRY; POST SECONDARY EDUCATION; PUBLIC HEALTH; REGULATIONS; *WATER ANALYSIS; WATER TREATMENT; WATER QUALITY

DESCRIPTIVE NOTE: 454P.

ABSTRACT: THIS COURSE MANUAL IS DISIGNED TO HELP MEET THE NEEDS OF THOSE PERSONS WHO WILL BE INVOLVED IN ANALYSIS OF POTABLE WATERS FOR CONTAMIMANTS LISTED IN THE INTERIM PRIMARY DRINKING WATER REGULATIONS. THE TEXT COVERS THE ANALYTICAL METHODOLOGY TO ANALYZE FOR METALS, ORGANICS, NITRATES AND FLUORIDE AS WELL AS SAMPLE HANDLING AND DISCUSSIONS ON LABORATORY CERTIFICATION AND THE ACT ITSELF. THE MANUAL IS DESIGNED TO ALLOW FOR MAXIMUM FLEXIBILITY IN PRESENTATION. ALL METHOD UNITS ARE WRITTEN IN A STEP-BY-STEP FORMAT TO FACILITATE STUDENT USE IN THE LABORATORY.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($14.50)

INSTITUTION NAME: EPA NATIONAL TRAINING AND OPERATIONAL

TECHNOLOGY CENTER.

IRIS ACCESSION NUMBER: EW004112

PUBLICATION DATE: NOV 77

TITLE: METHODS FOR THE DETERMINATION OF CHEMICAL CONTAMINANTS IN DRINKING WATER. INSTRUCTORS HANDBOOK.

DESCRIPTOR: *CHEMICAL ANALYSIS; *CONTAMINANTS; INSTRUCTIONAL MATERIALS; JOB SKILLS; *LABORATORY PROCEDURES; POST SECONDARY EDUCATION; *REGULATIONS; *TEACHING GUIDES; WATER ANALYSIS; *WATER TREATMENT; WATER QUALITY; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 194P.

ABSTRACT: THIS DOCUMENT CONTAINS THE INSTRUCTORS INFORMATION FOR A COURSE DESIGNED TO MEET THE NEEDS OF PERSONS INVOLVED IN THE ANALYSIS OF POTABLE WATERS FOR CONTAMINANTS LISTED IN THE INTERIM PRIMARY DRINKING WATER REGULATIONS. THE COURSE COVERS THE ANALYTICAL METHODOLOGY TO ANALYZE FOR METALS, ORGANICS, NITRATES, AND FLUORIDE. THE TEXT ALSO DISCUSSES SAMPLE HANDLING, LABORATORY CERTIFICATION, COURSE STRUCTURE, AND THE ACT. THE COURSE IS DESIGNED TO ALLOW FOR MAXIMUM FLEXIBILITY IN OUTLINE AND PRESENTATION. ALL METHOD UNITS ARE WRITTEN IN A STEP-BY-STEP FORMAT TO FACILITATE STUDENT USE IN THE LABORATORY.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($9.00)
INSTITUTION NAME: U S EPA, NATIONAL TRAINING AND OPERATIONAL TECHNOLOGY CENTER.

IRIS ACCESSION NUMBER: EW004119

PUBLICATION DATE: 75

TITLE: WATER TREATMENT OPERATORS REVIEW MANUAL.

DESCRIPTOR: CHEMISTRY; EQUIPMENT; FILTRATION; HYDRAULICS; *INSTRUCTIONAL MATERIALS; *JOB SKILLS; *LABORATORY PROCEDURES; MICROBIOLOGY; *OPERATIONS (WATER); PUBLIC HEALTH; WATER SOFTENING; WATER QUALITY; *WATER TREATMENT; WATER POLLUTION CONTROL

ABSTRACT: THIS MANUAL PROVIDES THE INFORMATION NEEDED BY THE WATER TREATMENT PLANT OPERATOR TO MEET WATER QUALITY STANDARDS. EACH OF THE EIGHT CHAPTERS PROVIDES A STEP-BY-STEP GUIDE TO TREATMENT PROCEDURES INCLUDING: (1)BACTERIOLOGY; (2)CHEMISTRY; (3)DISINFECTION; (4)FILTRATION; (5)HYDRAULICS; AND (6)SOFTENING. SAMPLE CALCULATIONS AND EQUIPMENT CALIBRATION ARE INCLUDED FOR EACH LABORATORY PROCEDURE.

AVAILABILITY: MICHIGAN DEPT OF PUBLIC HEALTH, BUREAU OF ENVIRONMENTAL AND OCCUPATIONAL HEALTH, DIVISION OF WATER SUPPLY, P O BOX 30035, LANSING, MI 78909 (FREE)

INSTITUTION NAME: WATER SUPPLY DIVISION, MICHIGAN DEPT. OF PUBLIC HEALTH.

IRIS ACCESSION NUMBER: EW004120

PUBLICATION DATE: 77

TITLE: DETERMINATION OF TOTAL RESIDUAL CHLORINE IODOMETRIC TITRATION METHOD. XT-93

PERSONAL AUTHOR: FELDMANN, C. R.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *CHEMICAL ANALYSIS; *CHLORINE; JOB SKILLS; *LABORATORY TECHNIQUES; *MEASUREMENT TECHNIQUES; *OPERATIONS (WASTEWATER); *TITRATION; WATER POLLUTION CONTROL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: INCLUDED IS A 10 MINUTE TAPE, 42 SLIDES AND A SCRIPT. AVAILABLE ON LOAN FROM NTOTC, 26 W ST. CLAIR, CINCINNATI, OH 45268.

ABSTRACT: THIS IS A SLIDE-TAPE PRESENTATION ILLUSTRATING THE DETERMINATION OF MERCURY IN WASTEWATER TREATMENT OPERATIONS. THE PROCEDURE IS BROKEN DOWN INTO THREE STEPS: CHEMISTRY; AERATION; AND FLAMELESS ATOMIC ABSORPTION.

IRIS ACCESSION NUMBER: EW004121

PUBLICATION DATE: 76
TITLE: CONSTRUCTION INSPECTION GUIDE. VOLUME 1. MCD-23.

DESCRIPTOR: BUILDING MATERIALS; *CONSTRUCTION (PROCESS); ELECTRICIAL SYSTEMS; EQUIPMENT; EROSION CONTROL; *FACILITY GUIDELINES; *INSPECTION; MUNICIPALITIES; PIPES; *STANDARDS; SITE DEVELOPMENT; *WASTEWATER TREATMENT; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 225P.

ABSTRACT: THIS DOCUMENT IS THE FIRST IN A SERIES OF THREE VOLUMES DESIGNED TO ASSIST ENGINEERS AND TECHNICIANS IN THE INSPECTION OF WASTEWATER TREATMENT FACILITIES DURING CONSTRUCTION. THESE VOLUMES EXAMINE THE DETAILED CONSTRUCTION OF THE STRUCTURAL, MECHANICAL, AND ELECTRICAL FEATURES OF MODERN FACILITIES. TOPICS ADDRESSED IN THIS VOLUME INCLUDE: (1) LAYOUT AND SURVEY; (2) EARTHWORK; (3) UNDERGROUND PIPE SYSTEMS; (4) PAVING; AND GRASSING, PLANTING AND EROSION CONTROL.

AVAILABILITY: GENERAL SERVICES ADMINISTRATION (8-FFS), CENTRALIZED MAILING LIST SERVICES, BLDG. 41, DENVER FEDERAL CENTER, DENVER, CO. 80225 (FREE)

INSTITUTION NAME: MUNICIPAL CONSTRUCTION DIVISION, OFFICE OF WATER PROGRAM OPERATIONS, U S EPA, WASHINGTON, DC.

IRIS ACCESSION NUMBER: EW004122
PUBLICATION DATE: 76

TITLE: CONSTRUCTION INSPECTION GUIDE. VOLUME 2. MCD-23.

DESCRIPTOR: *BUILDING MATERIALS; *CONSTRUCTION; *FACILITY GUIDELINES; *INSPECTION; MUNICIPALITIES; STANDARDS; SITE DEVELOPMENT; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 230P. REFERENCE NO. EPA-430/9-76-005

ABSTRACT: THIS DOCUMENT IS THE SECOND IN A SERIES OF THREE VOLUMES DESIGNED TO ASSIST ENGINEERS AND TECHNICIANS IN THE INSPECTION OF WASTEWATER TREATMENT FACILITIES DURING CONSTRUCTION. THESE VOLUMES EXAMINE THE DETAILED CONSTRUCTION OF THE STRUCTURAL, MECHANICAL AND ELECTRICAL FEATURES OF A MODERN FACILITY. TOPICS ADDRESSED IN THIS VOLUME INCLUDE: (1) WELDING; (2) MASONRY; CARPENTRY; (3) ROOFING; (4) RESILIENT TYPE FLOORS; (5) HARDWARE; (6) PAINTING; AND (7) PLUMBING AND SPRINKLING SYSTEMS.

AVAILABILITY: GENERAL SERVICES ADMINISTRATION (8-FFS), CENTRALIZED MAILING LIST SERVICES, BLDG.41, DENVER FEDERAL CENTER, DENVER, CO 80225 (FREE) REFERENCE NO. EPA-430/9-76-005

INSTITUTION NAME: MUNICIPAL CONSTRUCTION DIVISION, OFFICE OF WATER PROGRAM OPERATIONS, U.S. EPA, WASHINGTON, DC.

IRIS ACCESSION NUMBER: EW004123

PUBLICATION DATE: 76

TITLE: CONSTRUCTION INSPECTION GUIDE. VOLUME 3. MCD-23.

DESCRIPTOR: *BUILDING MATERIALS; *CONSTRUCTION; *EQUIPMENT; *FACILITIES; GUIDELINES; *INSPECTION; STANDARDS; *WASTEWATER TREATMENT; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 250P. REFERENCE NO. EPA-430/9-76-005

ABSTRACT: THIS DOCUMENT IS THE LAST IN A SERIES OF THREE VOLUMES DESIGNED TO ASSIST ENGINEERS AND TECHNICIANS IN THE INSPECTION OF WASTEWATER TREATMENT FACILITIES DURING CONSTRUCTION. THESE VOLUMES EXAMINE THE DETAILED CONSTRUCTION OF THE STRUCTURAL, MECHANICAL, AND ELECTRICAL FEATURES OF A MODERN FACILITY. TOPICS ADDRESSED IN THIS VOLUME INCLUDE: (1) VENTILATING; (2) AIR SUPPLY AND DISTRIBUTION SYSTEMS; (3) CATHODIC PROTECTION; (4) EQUIPMENT INSTALLATION; (5) INTERIOR AND EXTERIOR ELECTRICAL INSTALLATIONS; AND (6) LEVEE AND EARTH EMBANKMENT CONSTRUCTION.

AVAILABILITY: GENERAL SERVICES ADMINISTRATION (8-FFS), CENTRALIZED MAILING LIST SERVICES, BLDG.41, DENVER FEDERAL CENTER, DENVER, CO 80225 (FREE) REFERENCE NO. EPA-430/9-76-005

INSTITUTION NAME: MUNICIPAL CONSTRUCTION DIVISION, OFFICE OF WATER PROGRAM OPERATIONS, U.S. EPA, WASHINGTON, DC.

IRIS ACCESSION NUMBER: EW004124
PUBLICATION DATE: JUL 79

TITLE: AST & AWT: FITTING TREATMENT TO NEEDS.

PERSONAL AUTHOR: FELICIANO, D.V

DESCRIPTOR: *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT; FACILITY GUIDELINES; *ADMINISTRATIVE POLICY; GRANTS; *WATER QUALITY; *FEDERAL POLICY; *REGULATIONS; ENVIRONMENTAL PROTECTION AGENCY

ABSTRACT: THIS ARTICLE DISCUSSES THE NEW PROGRAM REQUIREMENTS AND AGENCY POLICY OF THE E.P.A. FOR THE REVIEW OF PROJECTS REQUIRING TREATMENT MORE STRINGENT THAN SECONDARY OPERATIONS. THE STEP-BY-STEP REVIEW PROCESS FOR ADVANCED SECONDARY (AST) AND ADVANCED WASTE(AWT) TREATMENT ARE OUTLINED.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL; V51, N7, P1787-1792

IRIS ACCESSION NUMBER: EW004125

PUBLICATION DATE: JUL 79

TITLE: DEALING WITH INNOVATIVE AND ALTERNATIVE TECHNOLOGY.

PERSONAL AUTHOR: FELICIANO, D.V

DESCRIPTOR: *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT; *TECHNOLOGY; *LEGISLATION; RESEARCH; *OPERATIONS(WASTEWATER); CLEAN WATER ACT

ABSTRACT: THE CLEAN WATER ACT (1977) ENCOURAGES THE USE OF INNOVATIVE AND ALTERNATIVE TECHNOLOGIES IN WASTEWATER TREATMENT PLANT OPERATIONS. THIS ARTICLE EXAMINES A PROGRAM BY E.P.A. TO REVIEW AND FIND THE INTENT AND POSSIBLE RAMIFICATIONS OF THIS PROGRAM.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL; V51, N7, P1792-1798

IRIS ACCESSION NUMBER: EW004126

PUBLICATION DATE: JUL 79

TITLE: BOD5: ARE THERE ALTERNATIVES AVAILABLE?

PERSONAL AUTHOR: SHERRARD, J.H.; AND OTHERS

DESCRIPTOR: *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT; *WATER ANALYSIS; *WATER MONITORING; *BIOCHEMICAL OXYGEN DEMAND

ABSTRACT: EXAMINED ARE LIMITATIONS OF THE CURRENTLY USED FIVE DAY BIOCHEMICAL OXYGEN DEMAND TEST AND PROPOSES POSSIBLE ALTERNATIVES FOR USE IN WASTEWATER TREATMENT PLANTS.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL; V51, N7, P1799-1804

IRIS ACCESSION NUMBER: EW004127

PUBLICATION DATE: JUL 79

TITLE: PRETREATMENT: A DILEMMA FOR INDUSTRIES.

PERSONAL AUTHOR: O'DETTE, ROBERT G

DESCRIPTOR: *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT; LEGISLATION; *STANDARDS; *FACILITY GUIDELINES; COST EFFECTIVENESS; *INDUSTRY; *REGULATIONS; *PRETREATMENT

ABSTRACT: THIS ARTICLE DISCUSSES INDUSTRIES RESPONSE TO THE PRETREATMENT REGULATIONS AND RAISES QUESTIONS REGARDING LEGAL DIRECTION, STANDARDS, RATIONALE, FUTURE PROMULGATION OF REGULATIONS, AND THE COST VERSUS ENVIRONMENTAL BENEFITS.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL; V51, N7, P1805-1810

IRIS ACCESSION NUMBER: EW004128

PUBLICATION DATE: JUL 79

TITLE: INCINERATION OF SLUDGE AND REFUSE WITH WASTE HEAT RECOVERY.

PERSONAL AUTHOR: COSULICH, WILLIAM F

DESCRIPTOR: *WASTE DISPOSAL; *WASTEWATER TREATMENT; *TECHNOLOGY; *ENERGY CONSERVATION; EQUIPMENT; *SLUDGE; *INCINERATION

ABSTRACT: DISCUSSED IS THE INCINERATOR CONSTRUCTED BY THE CITY OF GLEN GROVE, NEW YORK, TO COBURN REFUSE AND WASTEWATER SLUDGE TO MEET THE ENTIRE POWER NEEDS OF ITS WASTEWATER TREATMENT PLANT.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL; V51, N7, P1934-1938

IRIS ACCESSION NUMBER: EW004129

PUBLICATION DATE: JUL 79

TITLE: EVOLUTION OF THE ACTIVATED SLUDGE PROCESS.

PERSONAL AUTHOR: GIONA, ALESSANDRO R.; ANNESINI, M. CHRISTINA

DESCRIPTOR: *RESEARCH; *TECHNOLOGY; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT; *ACTIVATED SLUDGE; *OPERATIONS(WASTEWATER)

ABSTRACT: PRESENTED ARE THE RESULTS OF A STUDY OF THE EVOLUTION OF THE COMPONENT CONCENTRATIONS IN AN ACTIVATED SLUDGE SYSTEM WITH TIME. THE PARAMETERS WITH THE GREATEST EFFECT ON THE PROGRESS OF THE PROCESS ARE IDENTIFIED.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL; V51, N7, P1939-1948

IRIS ACCESSION NUMBER: EW004132

PUBLICATION DATE: 76

TITLE: LABORATORY METHODS FOR WATER TREATMENT PLANT OPERATORS.

PERSONAL AUTHOR: BENNETT, DOROTHY L.

DESCRIPTOR: *ALKALINITY; CHEMICAL ANALYSIS; *CHLORINE; JOB SKILLS; *LABORATORY PROCEDURES; PUBLIC HEALTH; PH; *WATER ANALYSIS; *WATER TREATMENT; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 10P.

ABSTRACT: THIS PAMPHLET PROVIDES STEP-BY-STEP PROCEDURES FOR WATER TREATMENT OPERATORS IN DETERMINING CHLORINE, ALKALINITY, PH, AND HARDNESS OF PROCESSED WATER.

AVAILABILITY: ILLINOIS EPA, DIVISION OF PUBLIC WATER SUPPLIES, 2200 CHURCHILL RD., SPRINGFIELD, IL 62706 (FREE)

IRIS ACCESSION NUMBER: EW004133

TITLE: LAND TREATMENT VS. AWT-HOW DO COSTS COMPARE?

PERSONAL AUTHOR: CRITES, RONALD W.; AND OTHERS

DESCRIPTOR: *WASTE DISPOSAL; *WASTEWATER TREATMENT; WATER POLLUTION CONTROL; *LAND APPLICATION; *LAND USE; *COST EFFECTIVENESS; TECHNOLOGY; ENGINEERING; PUBLIC HEALTH; *OPERATIONS (WASTEWATER)

ABSTRACT: THIS ARTICLE IS THE FIRST OF A TWO-PART SERIES AND COMPARES THE COSTS OF AN ADVANCED WASTE TREATMENT SYSTEM WITH LAND APPLICATION. THE INFORMATION CAN BE APPLIED TO ANALYZE EXISTING SECONDARY TREATMENT FACILITIES IMPROVEMENTS.

AVAILABILITY: WATER & WASTES ENGINEERING; V16 N8 P16-19, 42 AUG 79.

IRIS ACCESSION NUMBER: EW004134

TITLE: PBR-A NEW ADDITION TO THE AWT FAMILY.

PERSONAL AUTHOR: YOUNG, JAMES C.; STEWART, MICHAEL C.

DESCRIPTOR: *WASTEWATER TREATMENT; *TECHNOLOGY; WATER POLLUTION CONTROL; *RESEARCH; *OPERATIONS (WASTEWATER); ENGINEERING; BIOCHEMISTRY; PUBLIC HEALTH; *EQUIPMENT;

*PACKED-BED REACTOR

ABSTRACT: THIS ARTICLE EXAMINES THE FUNDAMENTAL OPERATING CHARACTERISTICS OF THE PACKED-BED REACTOR (PBR) PROCESS, REVIEWS VARIOUS TREATMENT APPLICATIONS, AND SUMMARIZES THE BASIC CRITERIA USED TO DESIGN PBR'S.

AVAILABILITY: WATER 8 WASTES ENGINEERING; V16 N8 P20-25 AUG 79.

IRIS ACCESSION NUMBER: EW004135

TITLE: STORAGE OF OZONE MAKES PURIFICATION EASIER.

PERSONAL AUTHOR: VASEEN, V.A.

DESCRIPTOR: *WATER TREATMENT; *CHEMICAL REACTIONS; WATER POLLUTION CONTROL; PUBLIC HEALTH; ENGINEERING; *TECHNOLOGY; OPERATIONS ANALYSIS

ABSTRACT: DESCRIBED IS A NEW METHOD OF OZONE PRODUCTION WHICH ENABLES STORAGE DURING THE THREE DAY HALF-LIFE. THIS METHOD WILL HELP WATER TREATMENT PLANTS MEET THE PROPOSED EPA PURIFICATION REQUIREMENTS.

AVAILABILITY: WATER 8 WASTES ENGINEERING; V16 N8 P29, 36 AUG 79.

IRIS ACCESSION NUMBER: EW004136

TITLE: MAXIMIZE OVERALL PHOSPHORUS REMOVAL.

PERSONAL AUTHOR: TSAI, KUO-CHUN; HUANG, JU-CHANG

DESCRIPTOR: *WASTEWATER TREATMENT; TECHNOLOGY; *WATER POLLUTION CONTROL; *OPERATIONS (WASTEWATER); *BIOCHEMISTRY; ENGINEERING; PUBLIC HEALTH; CHEMICAL REACTIONS; COST EFFECTIVENESS; *PHOSPHORUS; *RESEARCH

ABSTRACT: INVESTIGATED WERE THE REACTIONS OF PHOSPHORUS DURING VARIOUS PHASES OF WASTE TREATMENT AS A MEANS TO OPTIMIZE THE TREATMENT SYSTEM.

AVAILABILITY: WATER 8 WASTES ENGINEERING; V16 N8 P30-32 AUG 79.

IRIS ACCESSION NUMBER: EW004137

TITLE: PHOSPHATE BAN LOWERS REMOVAL COSTS.

PERSONAL AUTHOR: JACKE, ROBERT

DESCRIPTOR: *WASTEWATER TREATMENT; *COST EFFECTIVENESS; WATER POLLUTION CONTROL; CHEMICAL REACTIONS; *OPERATIONS (WASTEWATER); *CASE STUDIES

ABSTRACT: REPORTED ARE THE EFFECTS OF THE MICHIGAN PHOSPHATE BAN ON REDUCING PHOSPHATE CONCENTRATES. REMOVAL COSTS FOR THE ESCANABA WASTEWATER TREATMENT PLANT WERE SIGNIFICANTLY REDUCED.

AVAILABILITY: WATER 8 WASTES ENGINEERING; V16 N8 P33-35 AUG 79.

IRIS ACCESSION NUMBER: EW004145

PUBLICATION DATE: JUL 77

TITLE: SUBSIDIES, CAPITAL FORMATION, AND TECHNOLOGICAL CHANGE: MUNICIPAL WASTEWATER TREATMENT FACILITIES. VOLUME 1.

DESCRIPTOR: COST EFFECTIVENESS; *CONSTRUCTION; *ECONOMICS; *FACILITIES; FEDERAL LEGISLATION; *GRANTS; *MUNICIPALITIES; PUBLIC HEALTH; *SUBSIDIES; *TECHNOLOGY; WATER QUALITY AMENDMENTS; WATER POLLUTION CONTROL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 140P.

ABSTRACT: THIS VOLUME IS ONE OF SEVEN CASE STUDIES WHERE THE TOOLS OF MICROECONOMICS ARE APPLIED TO ASSESS THE EFFECTS OF SUBSIDIES ON CAPITAL FORMATION AND TECHNOLOGICAL CHANGE. THIS VOLUME DISCUSSES THE EFFECTS OF FEDERAL GRANTS TO ASSIST IN THE CONSTRUCTION OF MUNICIPAL WASTEWATER TREATMENT PLANTS AS CALLED FOR IN THE 1972 WATER QUALITY AMENDMENTS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($4.50)

INSTITUTION NAME: CHARLES RIVER ASSOCIATES INC., 1050 MASSACHUSETTS AVE., CAMBRIDGE, MA 02138.

IRIS ACCESSION NUMBER: EW004146

PUBLICATION DATE: DEC 78

TITLE: URBAN WATER RESOURCES POLICY ALTERNATIVES: A SOCIOLOGICAL ANALYSIS OF DIFFERENTIAL PERSPECTIVES.

PERSONAL AUTHOR: POTTER, HARRY R.; AND OTHERS

DESCRIPTOR: CITIZEN PARTICIPATION; *COMMUNITY SURVEYS; *DECISION MAKING; MUNICIPALITIES; *POLICY ANALYSIS; *RESEARCH; *SOCIOLOGY; URBAN PROBLEMS; *URBAN ENVIRONMENT; *WATER RESOURCES; *WATER POLLUTION CONTROL; WASTE DISPOSAL

DESCRIPTIVE NOTE: 35P. ORDER NO. 290 583

ABSTRACT: THIS DOCUMENT REPORTS ON A STUDY TO EVALUATE THE ACCEPTABILITY OF SELECTED URBAN WATER RESOURCES POLICY ALTERNATIVES BY BOTH COMMUNITY LEADERS AND THE GENERAL PUBLIC. WHILE SUBSTANTIVE ISSUES ARE EXAMINED THE EMPHASIS IS CONCERNED WITH THE METHODOLOGICAL APPROACH (SOCIAL SURVEY) AND ITS POTENTIAL FOR FURTHER APPLICATION.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICES, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($4.50)

IRIS ACCESSION NUMBER: EW004147
PUBLICATION DATE: NOV 78

TITLE: REUSE OF MUNICIPAL WASTEWATER AND DEVELOPMENT OF NEW TECHNOLOGY EMPHASIS AND DIRECTION NEEDED.

DESCRIPTOR: *FEDERAL LEGISLATION; GRANTS; *LAND APPLICATION; LAND USE; MUNICIPALITIES; PUBLIC HEALTH; *RECYCLING; *TECHNOLOGY; *WASTEWATER TREATMENT; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 39P.

ABSTRACT: THIS DOCUMENT REPORTS ON THE REASONS BEHIND THE ABSENCE OF NEW AND INNOVATIVE TECHNOLOGIES IN WASTE TREATMENT PROJECTS BEING CONSTRUCTED UNDER THE ENVIRONMENTAL PROTECTION AGENCY CONSTRUCTION GRANTS PROGRAM. EMPHASIS IS GIVEN TO LAND APPLICATION AND WASTEWATER REUSE AND WAYS OF OVERCOMING OBSTACLES WHICH INHIBIT THE USE OF THESE APPROACHES.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICES, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($4.50)

INSTITUTION NAME: COMPTROLLER GENERAL, U.S. GENERAL ACCOUNTING OFFICE, WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW004148

PUBLICATION DATE: AUG 78

TITLE: URBAN STORMWATER MANAGEMENT WORKSHOP PROCEEDINGS HELD IN EDISON, NEW JERSEY ON DECEMBER 1, 1977.

PERSONAL AUTHOR: FIELD, RICHARD, ED.

DESCRIPTOR: COST EFFECTIVENESS; *DEVELOPMENT; HYDRAULICS; MUNICIPALITIES; *MANAGEMENT; *MODELS; PUBLIC HEALTH; POLLUTION; RESEARCH; *RUNOFF; *STORMWATER MANAGEMENT MODEL; *URBAN ENVIRONMENT; *URBAN PROBLEMS; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 119P.

ABSTRACT: THIS DOCUMENT CONTAINS THE PROCEEDINGS FROM A WORKSHOP ON URBAN STORWATER MANAGEMENT TECHNOLOGY HELD IN 1977. TOPIC DISCUSSIONS INCLUDE: (1) THE URBAN STORMWATER MANAGEMENT TECHNOLOGY MANUAL UPDATE; (2) NEW VERSION OF THE STORM WATER MANAGEMENT MODEL (SWMM); (3) CHARACTERIZATION OF POLLUTANT ACCUMULATION RATES IN URBAN AREAS; AND (4) APPLICATION OF NONSTRUCTURAL CONTROL OF URBAN RUNOFF POLLUTION.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICES, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($7.25)

IRIS ACCESSION NUMBER: EW004149
PUBLICATION DATE: OCT 78

TITLE: WATER RATES AND COSTS. (A BIBLIOGRAPHY WITH ABSTRACTS).

PERSONAL AUTHOR: BROWN, ROBENA J.

DESCRIPTOR: *BIBLIOGRAPHIES; *ECONOMICS; FACILITIES; *MUNICIPALITIES; *TECHNOLOGY; *WATER COSTS; *WATER RATES; WATER QUALITY; WASTEWATER TREATMENT; WATER TREATMENT

DESCRIPTIVE NOTE: 112P. ORDER NO. PS-78/1091

ABSTRACT: CONTAINED ARE 112 ABSTRACTS OF FEDERALLY-FUNDED RESEARCH PROJECTS FOR THE PERIOD 1964-1978. PRICING WATER FOR URBAN, RURAL, INDUSTRIAL, AND AGRICULTURAL USAGE IS DESCRIBED. CONSTRUCTION OF WATER TREATMENT AND SEWAGE FACILITIES AS IT EFFECTS THE COST OF WATER IS ALSO DISCUSSED ALONG WITH PLANNING FOR NATIONAL, STATE, AND LOCAL GOVERNMENTS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICES, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($28.00)

IRIS ACCESSION NUMBER: EW004150

PUBLICATION DATE: OCT 78

TITLE: WATER-RELATED ENVIRONMENTAL EFFECTS IN FUEL CONVERSION: VOLUME 1. SUMMARY

PERSONAL AUTHOR: GOLD, HARRIS; AND GOLDSTEIN, DAVID J.

DESCRIPTOR: *COAL; *ENVIRONMENTAL INFLUENCES; *ENERGY; *FUELS; LAND USE; *POLLUTION; RECYCLING; *SYNTHETIC FUELS; *TECHNOLOGY; *WATER RESOURCES; *WASTE DISPOSAL; *WATER TREATMENT; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 231P. ORDER NO. PB 288 313

ABSTRACT: PRESENTED ARE THE RESULTS OF AN EXAMINATION OF WATER-RELATED EFFECTS WHICH MAY BE EXPECTED FROM SITING CONVERSION PLANTS IN THE MAJOR U.S. COAL AND OIL SHALE BEARING REGIONS. SYNTHETIC FUEL TECHNOLOGIES EXAMINED INCLUDE: (1) COAL GASIFICATION; (2) COAL LIQUEFACTION; (3) COAL REFINING; AND (4) OIL SHALE RETORTING. RESULTS PRESENTED INCLUDE THE RANGE OF WATER REQUIREMENTS, CONDITIONS FOR OPTIMIZING THE USE OF WATER, RANGES OF RESIDUAL SOLID WASTES, AND COST AND ENERGY REQUIREMENTS FOR WASTEWATER TREATMENT.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($9.50)

IRIS ACCESSION NUMBER: EW004151
PUBLICATION DATE: JUN 79

TITLE: PROGRAM REQUIREMENTS, MEMORANDA. MUNICIPAL WASTEWATER TREATMENT WORKS CONSTRUCTION GRANTS PROGRAM. MCD-02.8

DESCRIPTOR: *CONSTRUCTION; ENVIRONMENTAL INFLUENCES; *FACILITIES; *FEDERAL PROGRAMS; *GUIDELINES; MUNICIPALITIES; ENVIRONMENTAL PROTECTION AGENCY; *PROGRAM GUIDES; *REGULATIONS; *WASTEWATER TREATMENT; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 27P.

ABSTRACT: THIS DOCUMENT CONTAINS THREE PROGRAM REQUIREMENTS MEMORANDA ISSUED IN 1979 IN CONJUNCTION WITH THE CONSTRUCTION GRANTS PROJECTS FUNDED BY THE ENVIRONMENTAL PROTECTION AGENCY. TOPICS INCLUDE: PROJECTS REQUIRING MORE THAN SECONDARY TREATMENT; SMALL WASTEWATER SYSTEMS; AND OUTLAY MANAGEMENT.

AVAILABILITY: CENTRALIZED MAILING LISTS SERVICES, BLDG. 41, DENVER FEDERAL CENTER, DENVER, CO 80225

INSTITUTION NAME: US ENVIRONMENTAL PROTECTION AGENCY.

IRIS ACCESSION NUMBER: EW004152

PUBLICATION DATE: AUG 79

TITLE: ECONOMICS AND CONSERVATION PART 2.

PERSONAL AUTHOR: SCHAEFER, RICHARD

DESCRIPTOR: *CONSERVATION; NATURAL RESOURCES; *ECONOMICS; *UTILITIES; *MUNICIPALITIES; WATER POLLUTION CONTROL; MANAGEMENT; *WATER RATES; *WATER SUPPLY; *WATER RESOURCES

DESCRIPTIVE NOTE: 28-30P.

ABSTRACT: THIS ARTICLE IS THE SECOND IN A SERIES WHICH EXPLORES VARIOUS ECONOMIC INCENTIVES FOR WATER CONSERVATION. DISCUSSED ARE WAYS ELASTICITY AND RATE STRUCTURE INFLUENCE WATER USE PATTERNS.

AVAILABILITY: WATER AND SEWAGE WORKS; V126 N8.

IRIS ACCESSION NUMBER: EW004153

PUBLICATION DATE: AUG 79

TITLE: COST-EFFECTIVE ALGAE REMOVAL POSSIBLE WITH MICROSCREENING.

PERSONAL AUTHOR: KORMANIK, RICHARD A., AND CRAVENS, JOE BOB

DESCRIPTOR: *EQUIPMENT; *CHEMICAL REACTIONS; WATER POLLUTION CONTROL; *WASTEWATER TREATMENT; UTILITIES; *MICROBIOLOGY; RESEARCH; COST EFFECTIVENESS; *MICROSCREENING; LAGOONS; *ALGAE
DESCRIPTIVE NOTE: 31-35P.

ABSTRACT: REPORTED IS THE EFFECTIVENESS OF NEW MICROSCREENING TECHNIQUES FOR REMOVING ALGAE, REDUCING OPERATING REQUIREMENTS, AND LOWERING COSTS.

AVAILABILITY: WATER AND SEWAGE WORKS; V126 N8.

IRIS ACCESSION NUMBER: EW004154

PUBLICATION DATE: AUG 79

TITLE: RESIN ADSORBENT TAKES ON CHLORORGANICS FROM WELL WATER.

PERSONAL AUTHOR: ISACOFF, ERIC G., AND BITTNER, JERRY A.

DESCRIPTOR: PUBLIC HEALTH; *WATER SUPPLY; WATER POLLUTION CONTROL; *RESEARCH; *WELL WATER; *CHEMICAL REACTIONS; *WATER RESOURCES; *RESINS; ORGANIC COMPOUNDS

DESCRIPTIVE NOTE: 41-42P.

ABSTRACT: DISCUSSED IS A RESEARCH PROJECT UNDERTAKEN TO TEST THE EFFECTIVENESS OF ADSORBENT RESINS IN REMOVING CHLORINATED ORGANICS FROM MUNICIPAL WATER SUPPLIES.

AVAILABILITY: WATER AND SEWAGE WORKS., V126 N8.

IRIS ACCESSION NUMBER: EW004155

PUBLICATION DATE: AUG 79

TITLE: FROM SCREENING TO FILTRATION, TREATING THE WATER SUPPLY.

PERSONAL AUTHOR: HUNDAL, H.S., AND OTHERS

DESCRIPTOR: *WATER TREATMENT; PUBLIC HEALTH; WATER POLLUTION CONTROL; *CHEMICAL REACTIONS; *OPERATIONS (WATER); UTILITIES; MUNICIPALITIES; *DISINFECTION; *DEMINERALIZATION; *WATER SOFTENING

DESCRIPTIVE NOTE: 48-51P.

ABSTRACT: THIS ARTICLE IS THE THIRD IN A SERIES WHICH COVERS POTABLE WATER SUPPLY FROM SOURCE TO TAP. DISCUSSED ARE THE PROCESSES USED IN WATER SOFTENING, DEMINERALIZATION, AND DISINFECTION.

AVAILABILITY: WATER AND SEWAGE WORKS; V126 N8.

IRIS ACCESSION NUMBER: EW004156

PUBLICATION DATE: AUG 79

TITLE: DO PROBE WINKLES WINKLER.

PERSONAL AUTHOR: SMEATON, GLENN

DESCRIPTOR: *OPERATIONS(WATER); CHEMICAL ANALYSES; *LABORATORY PROCEDURES; STANDARDS; *COST EFFECTIVENESS; *OXYGEN; *DISSOLBED OXYGEN; *WINKLER TEST

DESCRIPTIVE NOTE: 52P.

ABSTRACT: THIS ARTICLE REPORTS ON STUDIES DONE ON THE PERFORMANCE AND COST EFFECTIVENESS OF USING THE DISSOLVED-OXYGEN TEST COMPARED WITH THE WINKLER TEST FOR BOD DETERMINATIONS.

AVAILABILITY: WATER AND SEWAGE WORKS; V126 N8.

IRIS ACCESSION NUMBER: EW004157

PUBLICATION DATE: AUG 79

TITLE: FLOCCULANTS EASE COST, RAISE QUALITY OF WASTEWATER TREATMENT.

PERSONAL AUTHOR: GILMAN, KEVIN; AND OTHERS

DESCRIPTOR: *WASTEWATER TREATMENT; *OPERATIONS (WASTEWATER); *CHEMICAL REACTIONS; *COST EFFECTIVENESS; *FLOCCULANTS; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 54-56P.

ABSTRACT: THIS ARTICLE REPORTS ON THE USE OF NATURAL AND SYNTHETIC FLOCCULANTS IN THE TREATMENT OF WASTE-WATER. PROPERTIES, COST-EFFECTIVENESS, AND AVAILABILITY ARE DISCUSSED.

AVAILABILITY: WATER AND SEWAGE WORKS; V126 N8.

IRIS ACCESSION NUMBER: EW004158

PUBLICATION DATE: AUG 79

TITLE: STATE OF THE ART OF MUNICIPAL SLUDGE MANAGEMENT PART 1.

PERSONAL AUTHOR: JACOBS, ALLAN; AND OTHERS

DESCRIPTOR: *WASTE DISPOSAL; WASTEWATER TREATMENT; *OPERATIONS (WASTEWATER); *COST EFFECTIVENESS; *SLUDGE; TECHNOLOGY; EQUIPMENT; LAND APPLICATION; MUNICIPALITIES; *ENERGY CONSERVATION; *MANAGEMENT

DESCRIPTIVE NOTE: 60-64P.

ABSTRACT: DISCUSSED ARE THE VARIOUS TECHNIQUES AVAILABLE FOR THE DISPOSAL OF SLUDGE FROM WASTE-WATER TREATMENT FACILITIES. PROCESSES DESCRIBED ARE HAND APPLICATION, COMPOSTING, AND HEAT DRYING.

AVAILABILITY: WATER AND SEWAGE WORKS; V126 N8.

IRIS ACCESSION NUMBER: EW004159

PUBLICATION DATE: AUG 79

TITLE: RESURRECTING THE DEAD ANAEROBIC DIGESTER.

PERSONAL AUTHOR: SNELLING, DONALD P.

DESCRIPTOR: *WASTEWATER TREATMENT; *OPERATIONS (WASTEWATER); *EQUIPMENT; WATER POLLUTION CONTROL; *CHEMICAL REACTIONS; UTILITIES; *ANAEROBIC DIGESTERS

DESCRIPTIVE NOTE: 66-67P.

ABSTRACT: DISCUSSED ARE THE CAUSES AND REMEDIES FOR IMBALANCED ANAEROBIC DIGESTERS. THE INFORMATION OUTLINES TESTS, PARAMETERS, AND CORRECTIVE ACTIONS.

AVAILABILITY: WATER AND SEWAGE WORKS; V126 N8.

IRIS ACCESSION NUMBER: EW004160

TITLE: PREFAB "COOLER" PROTECTS INSTRUMENTATION AND PERSONNEL.

PERSONAL AUTHOR: KENNING, J.D.

DESCRIPTOR: EQUIPMENT; *TECHNOLOGY; *WORK ENVIRONMENT; *CANADA; *WATER POLLUTION CONTROL; NATURAL RESOURCES; *BUILDING DESIGN; COMPUTERS; WATER SUPPLY; *INSTRUMENTATION; *MONITORING

ABSTRACT: THIS ARTICLE REPORTS ON THE DESIGN AND USE OF WALK-IN ENCLOSURES FOR ISOLATED WATER QUALITY MONITORING STATIONS. THE PREFAB SHELTER PROTECTS BOTH EQUIPMENT AND CREWS.

AVAILABILITY: WATER AND SEWAGE WORKS; V126 N8 P68 AUG 79

IRIS ACCESSION NUMBER: EW004161

TITLE: THE BURNING ISSUE: INCINERATION OF HAZARDOUS WASTES.

PERSONAL AUTHOR: ROSS, RICHARD D.

DESCRIPTOR: *EQUIPMENT; *WASTE DISPOSAL (OPERATIONS); *AIR POLLUTION CONTROL; CHEMICAL REACTIONS; ENERGY; HAZARDOUS WASTES; *INCINERATION; PUBLIC HEALTH; WATER POLLUTION CONTROL; *TECHNOLOGY

ABSTRACT: THIS ARTICLE DISCUSSES THE SYSTEMS AND EQUIPMENT WHICH HAVE BEEN DEVELOPED TO HANDLE VARIOUS TYPES OF

HAZARDOUS COMBUSTIBLE WASTE MATERIALS DISPOSAL.
AVAILABILITY: POLLUTION ENGINEERING; V11 N8 P25-28 AUG 79

IRIS ACCESSION NUMBER: EW004162

TITLE: AVOIDING CONFINED SPACE HAZARDS IN WASTEWATER TREATMENT PLANTS.

PERSONAL AUTHOR: NEW, BRUCE A.

DESCRIPTOR: *ACCIDENT PREVENTION; *SAFETY; EQUIPMENT; *WORK ENVIRONMENT; *FACIILITIES; WATER POLLUTION CONTROL; *WASTEWATER TREATMENT; STANDARDS

ABSTRACT: DISCUSSED ARE THE HAZARDS COMMONLY ASSOCIATED WITH CONFINED ENTRY SPACES WITHIN WASTEWATER TREATMENT FACILITIES. RECOMMENDATIONS FOR SAFETY PROCEEDURES AND PERSONNEL PROTECTION EQUIPMENT ARE PROVIDED.

AVAILABILITY: POLLUTION ENGINEERING; V11 N8 P35-38 AUG 79

IRIS ACCESSION NUMBER: EW004163

TITLE: YOU CAN'T BE CHICKEN IN HANDLING THESE WASTES.

PERSONAL AUTHOR: CULLINANE, JR., M.J.; AND DIETZ, J.D.

DESCRIPTOR: *MEAT PACKING INDUSTRY; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; WASTEWATER TREATMENT; *POULTRY; MANAGEMENT; TECHNOLOGY; *COST EFFECTIVENESS; EQUIPMENT

ABSTRACT: DISCUSSED ARE WAYS TO REDUCE WASTE STRENGTH AND VOLUME AS WELL AS SEWER USE CHARGES AND WATER PURCHASE REQUIREMENTS IN THE POULTRY PACKING INDUSTRY.

AVAILABILITY: POLLUTION ENGINEERING; V11 N8 P42-44 AUG 79

IRIS ACCESSION NUMBER: EW004164

TITLE: ANALYSIS OF TOXICITY DATA FOR CALIFORNIA MARINE WATER QUALITY STANDARDS.

PERSONAL AUTHOR: KLAPOW, LAWRENCE A., AND OTHERS

DESCRIPTOR: WATER POLLUTION CONTROL; *WATER QUALITY; *STANDARDS; *CALIFORNIA; TOXICITY; *WASTEWATER TREATMENT; RESEARCH; *MARINE BIOLOGY; ECOLOGY; *BIOCHEMISTRY; *OCEANOLOGY

ABSTRACT: THIS ARTICLE DESCRIBES THE RESEARCH UNDERTAKEN TO EVALUATE, CONTROL, AND STANDARDIZE THE WATER QUALITY EFFECTS OF POTENTIALLY TOXIC MATERIALS IN WASTEWATER DISCHARGES TO CALIFORNIA'S OPEN COASTAL MARINE ENVIRONMENT.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION, V51 N8 P2054-2070 AUG 79

IRIS ACCESSION NUMBER: EW004165
TITLE: REMOVAL OF GREASE AND OIL BY BIOLOGICAL TREATMENT.

PERSONAL AUTHOR: YOUNG, JAMES C.

DESCRIPTOR: *WASTEWATER TREATMENT; WATER POLLUTION CONTROL; *RESEARCH; *GREASE; CHEMICAL REACTIONS; *LUBRICANTS; STANDARDS; *OPERATIONS (WASTEWATER); WASTE DISPOSAL

ABSTRACT: THIS ARTICLE REPORTS A STUDY INITIATED TO DEVELOP AN UNDERSTANDING OF GREASE AND OIL REMOVAL BY FULL-SCALE TREATMENT PLANTS AND TO IDENTIFY WASTEWATER CHARACTERISTICS AND OPERATING PARAMETERS AFFECTING GREASE AND OIL REMOVAL.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION; V51 N8 P2071-2087 AUG 79

IRIS ACCESSION NUMBER: EW004166

TITLE: PERFORMANCE AND KINETICS OF LOW-TEMPERATURE, AEROBIC SLUDGE DIGESTION.

PERSONAL AUTHOR: MAVINIC, D.S.; AND KOERS, D.A.

DESCRIPTOR: *WASTEWATER TREATMENT; WATER POLLUTION CONTROL; *OPERATIONS (WASTEWATER); *ACTIVATED SLUDGE; *RESEARCH; ENGINEERING; BIOCHEMISTRY; *SLUDGE; *CLIMATIC FACTORS

ABSTRACT: THIS PAPER PRESENTS THE FINDINGS OF A STUDY INTO THE DESIGN AND OPERATING CRITERIA FOR AEROBIC DIGESTION SYSTEMS HANDLING WASTE ACTIVATED SLUDGE. EMPHASIS IS DIRECTED TO SYSTEM PERFORMANCE UNDER COLD CLIMATIC CONDITIONS.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION; V51 N8 P2088-2097 AUG 79

IRIS ACCESSION NUMBER: EW004167

TITLE: ENGINEERING PRINCIPLES OF SLUDGE COMPOSTING.

PERSONAL AUTHOR: HAUG, ROGER T.

DESCRIPTOR: *RECYCLING; *WASTEWATER TREATMENT; WATER POLLUTION CONTROL; *OPERATIONS (WASTEWATER); *SLUDGE; LAND USE; *ENGINEERING; *TECHNOLOGY; RESEARCH; *COMPOSTING

ABSTRACT: THIS PAPER DESCRIBES AVAILABLE SLUDGE COMPOSTING TECHNIQUES, DISCUSSES THE THEORETICAL, ENGINEERING, AND THERMODYNAMIC PRINCIPLES OF THEIR OPERATION, AND PROVIDES GUIDELINES FOR PRACTICAL APPLICATION.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION; V51 N8 P2088-2097 AUG 79

IRIS ACCESSION NUMBER: EW004170
TITLE: HEALTH AND THE WATER FACTOR.

DESCRIPTOR: *ENVIRONMENTAL INFLUENCES; *PUBLIC HEALTH; SANITATION; *WATER POLLUTION CONTROL; *DISEASES; *CARCINOGENS; *RESEARCH; CHEMISTRY; INFANT MORTALITY; *SODIUM

ABSTRACT: THE ARTICLES IN THIS SECTION REPORT ON THE RESULTS OF ON GOING STUDIES IN THE U.S. AND GREAT BRITAIN TO IDENTIFY DIFFERENT WATER FACTORS. INCLUDED ARE STUDIES ON THE EFFECT OF SODIUM IN WATER ON MIDDLE-AGED MEN AND ON INFANTS. ALSO REPORTED ARE RECENT INSTANCES OF WATERBORNE DISEASE OUT BREAKS AND STEPS FOR CONTROL.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V71 N8 P407-428 AUG 79

IRIS ACCESSION NUMBER: EW004171

TITLE: AUTOMATION AND INSTRUMENTATION: A COMPENDIUM OF ARTICLES ON DISTRIBUTION SYSTEM INSTRUMENTATION.

DESCRIPTOR: *MANAGEMENT; *AUTOMATION; *EQUIPMENT; *AUTOMATIC CONTROL SYSTEMS; *WATER DISTRIBUTION; *WATER TREATMENT; *OPERATION ANALYSIS; COMPUTERS; COST EFFECTIVENESS

ABSTRACT: THIS ARTICLE PRESENTS A REVIEW OF THE LITERATURE THAT DESCRIBES THE DESIGN AND IMPLEMENTATION OF AUTOMATIC CONTROL SYSTEMS FOR TREATMENT PLANT OPERATIONS. TWO LISTS OF ABSTRACTS THAT REFERENCE PRACTICAL AND THEORETICAL APPLICATIONS ARE PROVIDED.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V71 N8 P429-440 AUG 79

IRIS ACCESSION NUMBER: EW004172

TITLE: VIRUSES IN DRINKING WATER.

DESCRIPTOR: *PULBIC HEALTH; *DISEASES; *WATER TREATMENT; *WATER POLLUTION CONTROL; *VIRUSES; TECHNOLOGY; RESEARCH; *SANITATION

ABSTRACT: REVIEWED IS THE STATE-OF-THE-ART OF ENVIRONMENTAL VIROLOGY AS APPLIED TO WATER TREATMENT CRITERIA.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL: V71 N8 P441-444 AUG 79

IRIS ACCESSION NUMBER: EW004173
TITLE: TREATMENT TECHNOLOGY TO MEET THE INTERIM PRIMARY DRINKING WATER REGULATIONS FOR ORGANICS: PART 4.

PERSONAL AUTHOR: SORG, THOMAS J.

DESCRIPTOR: *PUBLIC HEALTH; *WATER TREATMENT; *WATER POLLUTION CONTROL; *STANDARDS; CHEMICAL ANALYSIS; TECHNOLOGY; *ORGANIC COMPOUNDS; *DRINKING WATER REGULATIONS; MERCURY; CHROMIUM

ABSTRACT: THIS ARTICLE IS THE FOURTH IN A SERIES SUMMARIZING EXISTING TREATMENT TECHNOLOGY TO MEET THE INORGANIC NATIONAL INTERUM PRIMARY DRINKING WATER REGULATIONS. THIS REPORT DESCRIBES METHODS FOR REMOVING CHROMIUM AND MERCURY FROM DRINKING WATER.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V71 N8 P454-466 AUG 79

IRIS ACCESSION NUMBER: EW004176

PUBLICATION DATE: MAR 79

TITLE: ENVIRONMENTAL STATISTICS 1978.

DESCRIPTOR: AGRICULTURE; AIR POLLUTION CONTROL; DEMOGRAPHY; ENERGY; *ENVIRONMENT; HUMAN SETTLEMENTS; LAND USE; POPULATION TRENDS; *STATISTICAL DATA; *STATISTICS; *TABLES (DATA); WASTE DISPOSAL; WATER POLLUTION CONTROL; WATER QUALITY; WILDLIFE MANAGEMENT; COUNCIL ON ENVIRONMENTAL QUALITY

DESCRIPTIVE NOTE: 264P. REPORT NO. PB 294141

ABSTRACT: THIS DOCUMENT, CONSISTING OF APPROXIMATELY 200 TABLES CONTAINS ENVIRONMENTAL DATA, PRIMARILY IN TIME SERIES AND RECENT TRENDS IN THE ENVIRONMENT. THE TABLES ARE ORGANIZED INTO TWELVE CHAPTERS DEALING WITH POPULATION AND LAND USE, CRITICAL AREAS, HUMAN SETTLEMENTS, TRANSPORTATION, INDUSTRIAL PRODUCTION AND SOLID WASTE, HAZARDOUS SUBSTANCES, WILDLIFE, ENERGY, WATER RESOURCES, AIR AND WATER QUALITY, CROPLAND, FOREST, AND GRAZING LAND. THE SERIES ORIGINATED PRIMARILY FROM FEDERAL GOVERNMENT INFORMATION SOURCES, WITH PARTICULAR ATTENTION BEING GIVEN TO PREPARING TABLES FOR SERIES THAT ARE NOT READILY AVAILABLE TO ANALYSTS OUTSIDE AN AGENCY. THE TABLES DO NOT INCLUDE SUFFICIENT DETAIL FOR REGIONAL AND LOCAL ANALYSIS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($10.75)

INSTITUTION NAME: CENTER FOR ENVIRONMENTAL REPORTING, WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW004177

PUBLICATION DATE: SEP 77

TITLE: WASTEWATER TREATMENT SYSTEMS FOR SAFETY REST AREAS.

PERSONAL AUTHOR: HUGHES, GREGORY W., AND OTHERS

DESCRIPTOR: CONSTRUCTION; *DESIGN; FACILITIES; *FACILITY GUIDELINES; MOTOR VEHICLES; *REST AREAS; SEWAGE; *TRAVEL; *WASTEWATER; *WASTEWATER TREATMENT; WATER POLLUTION CONTROL; WATER USEAGE

DESCRIPTIVE NOTE: 220P. REPORT NO. PB 290 933

ABSTRACT: DESIGN GUIDELINES FOR REST-AREA WASTEWATER TREATMENT SYSTEMS THAT ARE CAPABLE OF COMPLYING WITH THE REQUIREMENTS OF THE FEDERAL WATER POLLUTION CONTROL ACT AMENDMENTS OF 1972 (PL 92-500) ARE PRESENTED. ALSO PRESENTED IS GUIDANCE FOR DETERMINING WASTEWATER FLOW AND CONSTITUTENT CONCENTRATION. EACH WASTEWATER TREATMENT SYSTEMS PRESENTED (SEPTIC TANKS, LAGOONS, EXTENDED AERATION PACKAGEPLANTS, TRICKLING FILTERS, ROTATING BIOLOGUAL FILTERS, LAND TREATMENT SYSTEMS, INTERMITTENT SAND FILTER SYSTEMS, AND DISINFECTION) INCLUDES A PROCESS DESCRIPTION, A DISCUSSION OF PERFORMANCE, FLEXIBILITY, RELIABILITY, AND OPERATIONAL PROCEDURES, PRELIMINARY DESIGN FORMULATIONS, REFERENCES, AND SELECTED BIBLIOGRAPHY. ALSO INCLUDED IS A FLOW CHART SHOWING A GENERAL DESIGN PROCEDURE FOR NEW AND EXISTING REST AREAS WITH EMPHASES ON WATER SUPPLY NEEDS AND WASTEWATER TREATMENT SYSTEMS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($11.00)

IRIS ACCESSION NUMBER: EW004178

PUBLICATION DATE: JUL 75

TITLE: LAND DISPOSAL OF WASTEWATER: AN ANNOTATED BIBLIOGRAPHY.

PERSONAL AUTHOR: HARTIGAN, JR., JOHN P.; WILLEKE, GENE E.

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; DISPOSAL METHODOLOGIES; INFORMATION DISSEMINATION; *LAND USE; *LAND APPLICATION; *SCIENTIFIC RESEARCH; TECHNOLOGICAL ADVANCEMENT; WASTE DISPOSAL; *WASTEWATER; *WASTEWATER TREATMENT; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 50P.

ABSTRACT: THIS DOCUMENT FOCUSES ON AN ASSESSMENT OF THE LITERATURE AVAILABLE ON LAND DISPOSAL OF WASTEWATER RELATED TOPICS. EACH LITERARY SOURCE HAS BEEN CATEGORIZED ACCORDING TO ITS CONTRIBUTION TO THE FOLLOWING AREAS OF LAND DISPOSAL RESEARCH: THE HISTORY OF LAND DISPOSAL; LAND DISPOSAL PLANNING PROCESSES; IMPACTS OF LAND DISPOSAL SYSTEMS ON URBAN AND REGIONAL LAND USE; SOIL RENOVATION MECHANISMS; PROCEDURES FOR SELECTING THE LAND DISPOSAL SITE; DESIGN AND OPERATION OF LAND DISPOSAL SYSTEMS, EXISTING OR PROPOSED LAND DISPOSAL DESIGNS; AND COMPARSIONS BETWEEN LAND DISPOSAL AND ADVANCED WASTE TREATMENT SYSTEMS. EACH CONTRIBUTION IS RATED ACCORDING TO THE AMOUNT OF TECHNICAL EXPERTISE THAT THE READER REQUIRES IN ORDER TO GRASP THE AUTHOR'S INTENDED MEANING. THE MATERIALS PROVIDE AN OUTLINE OF THE STATE-OF-THE-ART RECORDED IN THE LITERATURE AS OF MID-1974.

AVAILABILITY: COUNCIL OF PLANNING LIBRARIANS, P.O. BOX 229, MONTICELLO, IL 61856 ($5.00)

IRIS ACCESSION NUMBER: EW004179

PUBLICATION DATE: APR 76

TITLE: WATERSHED PLANNING: A SELECTED RESEARCH BIBLIOGRAPHY.

PERSONAL AUTHOR: KUDRNA, JR., FRANK L.

DESCRIPTOR: *BIBLIOGRAPHIES; *INFORMATION SOURCES; *PLANNING; REGIONAL PLANNING; RESEARCH REVIEWS (PUBLICATIONS); WASTEWATER TREATMENT; *WATER RESOURCES; *WATERSHEDS; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 57P.

ABSTRACT: THIS BIBLIOGRAPHY COMPILED AS PART OF THE AUTHOR'S DOCTORAL STUDIES, CONTAINS 569 SELECTED REFERENCES IN AN AREA OF WATER SHED PLANNING PRODUCED FROM 1967 TO 1975. THE BIBLIOGRAPHY IS DIVIDED INTO THREE PARTS: PART I CONTAINS A LIST OF 194 ONGOING RESEARCH ACTIVITIES IN THE AREAS OF RIVER BASIN PLANNING AND REGIONAL PLANNING OF WASTEWATER TREATMENT, AS IDENTIFIED IN A SMITHSONIAN SCIENCE INFORMATION EXCHANGE LITERATURE SEARCH. THE INFORMATION IS LISTED ALPHABETICALLY BY TITLE, AND INCLUDES SPONSORING AGENCY, PRINCIPAL INVESTIGATORS, RECIPIENT INSTITUTION AND RECIPIENT INSTITUTION ADDRESS; PART II CONTAINS A LIST OF 162 PUBLICATIONS IN THE AREAS OF RIVER BASIN PLANNING AND REGIONAL AREAWIDE WASTEWATER TREATMENT PLANNING AS IDENTIFIED BY A NATIONAL TECHNICAL INFORMATION LITERATURE SEARCH. THIS INFORMATION IS LISTED ALPHABETICALLY BY TITLE, FOLLOWED BY THE SPONSORING AGENCY, OR AUTHOR AND NTIS ORDER NUMBER; PART III LISTS THE REMAINING 213 REFERENCES IN THE AREA OF WATER SHED PLANNING AS IDENTIFIED BY THE AUTHOR.

AVAILABILITY: COUNCIL OF PLANNING LIBRARIANS, P.O. BOX 229, MONTICELLO, IL 61856 ($5.50)

IRIS ACCESSION NUMBER: EW004180

PUBLICATION DATE: 79

TITLE: WATER SOURCES AND TRANSMISSION. VOLUME 1. PRINCIPLES AND PRACTICES OF WATER SUPPLY OPERATIONS.

DESCRIPTOR: CHEMISTRY; *ENVIRONMENTAL TECHNICIANS; EQUIPMENT; ENGINEERING; *INSTRUCTIONAL MATERIALS; *JOB SKILLS; *OPERATIONS (WATER); POST SECONDARY EDUCATION; *WATER DISTRIBUTION; *WATER SUPPLY; *WATER TREATMENT; WATER RESOURCES

DESCRIPTIVE NOTE: 155P.

ABSTRACT: THIS IS THE FIRST OF A FIVE-VOLUME SET OF BOOKS WHICH CONTAIN TRAINING INFORMATION FOR BASIC-TO INTERMEDIATE-GRADE WATER TREATMENT OPERATORS. THIS VOLUME CONTAINS BACKGROUND INFORMATION ON WATER SOURCES AND CHARACTERISTICS, FACTORS INFLUENCING WATER DEMAND, THE DEVELOPMENT OF WATER SOURCES, AND TRANSMISSION SYSTEMS. A MODULAR FORMAT PROVIDES FLEXIBILITY IN CONDUCTING TRAINING COURSES OF VARYING LENGTHS. A GLOSSARY AND ANSWERS TO REVIEW QUESTIONS ARE INCLUDED IN THE APPENDIX.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION, 6666 W. QUINCY AVE., DENVER, CO 80235 ($6.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOCIATION.

IRIS ACCESSION NUMBER: EW004181

PUBLICATION DATE: 75

TITLE: MANUAL OF INDIVIDUAL WATER SUPPLY SYSTEMS.

DESCRIPTOR: *CONSTRUCTION; EQUIPMENT; *GROUNDWATER; GUIDELINES; *PUBLIC HEALTH; PUMPS; *RURAL AREAS; SANITATION; STANDARDS; *WATER POLLUTION CONTROL; *WATER TREATMENT; *WATER RESOURCES; *WATER WELLS

DESCRIPTIVE NOTE: 155P. STOCK NO. 055-001-00626-8

ABSTRACT: THIS MANUAL ADDRESSES THE FACTORS CONCERNED IN THE PLANNING AND CONSTRUCTION OF INDIVIDUAL WATER SUPPLY SYSTEMS. MUCH OF THE TEXT DEALS WITH GROUND WATER AND WELLS WITH PRACTICAL RECOMMENDATIONS ON CONSTRUCTION PROVIDED. EACH SECTION INCLUDES ILLUSTRATIONS AND TABLES TO SUPPLEMENT THE TEXT. COLOR HAS BEEN USED TO CLARIFY ILLUSTRATIONS. MAJOR TOPIC AREAS INCLUDE: (1) SELECTION OF A WATER SOURCE; (2) GROUND WATER; (3) SURFACE WATER FOR RURAL USE; (4) WATER TREATMENT; AND (5) PUMPING, DISTRIBUTION, AND STORAGE.

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 ($3.00)

INSTITUTION NAME: U.S. ENVIRONMENTAL PROTECTION AGENCY, OFFICE OF WATER PROGRAMS WATER SUPPLY DIVISION.

IRIS ACCESSION NUMBER: EW004182

TITLE: WATER AND MAN'S HEALTH.

PERSONAL AUTHOR: MILLER, ARTHUR P.

DESCRIPTOR: *CHEMISTRY; *DISEASES; *ENVIRONMENTAL INFLUENCES; GLOBAL APPROACH; MICROBIOLOGY; PARASITES; *PUBLIC HEALTH; RADIATION; *SANITATION; *WATER POLLUTION CONTROL; WATER RESOURCES

ABSTRACT: THIS MONOGRAPH ADDRESSES THE ROLE OF WATER AND ITS RELATIONSHIP TO MAN. IN PARTICULAR IT ADDRESSES THE LIVING AND NON-LIVING COMPONENTS OF WATER AS THEY RELATE TO MAN'S HEALTH. TOPIC AREAS DISCUSSED INCLUDE: (1) PARASITES; (2) WATERBORNE DISEASES; (3) CHEMICAL SUBSTANCES IN WATER; AND (4) RADIOACTIVE MATERIALS.

AVAILABILITY: OFFICE OF HUMAN RESOURCES AND SOCIAL DEVELOPMENT, AGENCY FOR INTERNATIONAL DEVELOPMENT, WASHINGTON, D.C. (NO PRICE QUOTED)

IRIS ACCESSION NUMBER: EW004183

PUBLICATION DATE: 76

TITLE: WATER SOURCES AND TRANSMISSION. VOLUME 1. PRINCIPLES AND PRACTICES OF WATER SUPPLY OPERATIONS. INSTRUCTOR GUIDE AND SOLUTIONS MANUAL.

DESCRIPTOR: *CURRICULUM GUIDES; EQUIPMENT; FACILITIES; *INSTRUCTIONAL MATERIALS; *OPERATIONS (WATER); PUBLIC HEALTH; POST SECONDARY EDUCATION; *WATER TREATMENT; *WATER SUPPLY; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 168P.

ABSTRACT: THIS INSTRUCTOR'S GUIDE CONTAINS THE NECESSARY RESOURCE MATERIAL FOR TEACHING AND EVALUATING STUDENT PERFORMANCE IN A BASIC/INTERMEDIATE COURSE FOR WATER SYSTEM OPERATORS. FIFTEEN LESSON PLANS COVERING SUCH TOPICS AS: THE WATER CYCLE; CHARACTERISTICS OF WATER; PUBLIC WATER USE; SURFACE-WATER DEVELOPMENT; PIPELINES, VALVES, AND PUMPS; AND FLOW MEASUREMENT ARE PRESENTED. EACH LESSON CONTAINS: INSTRUCTIONAL GUIDELINES; MEASURABLE OUTCOMES; REQUIRED MATERIALS; ASSIGNMENTS; SUPPLEMENTARY READINGS; AND A LESSON PLAN OUTLINE. EXAMINATION QUESTIONS AND ANSWERS AND SOURCE INFORMATION FOR SUPPLEMENTARY AUDIO-VISUAL MATERIALS ARE PROVIDED IN THE APPENDICES.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION, 666 W QUINCY AVE., DENVER, CO 80235 ($30.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOCIATION.

IRIS ACCESSION NUMBER: EW004184

PUBLICATION DATE: AUG 62

TITLE: PUBLIC HEALTH SERVICE DRINKING WATER STANDARDS, 1962.

DESCRIPTOR: CHEMICAL ANALYSIS; DISINFECTION; ENVIRONMENTAL INFLUENCES; *DRINKING WATER; *PUBLIC HEALTH; *REGULATIONS; *STANDARDS; SANITATION; *WATER QUALITY

DESCRIPTIVE NOTE: 61P.

ABSTRACT: THIS DOCUMENT CONTAINS THE 1962 PUBLIC HEALTH STANDARDS TO WHICH DRINKING WATER AND WATER SUPPLY SYSTEMS SUBJECT TO FEDERAL QUARANTIVE REGULATIONS HAD TO CONFORM. REQUIREMENTS REPORTED INCLUDE: SOURCE AND PROTECTION; BACTERIOLOGICAL QUALITY; PHYSICAL CHARACTERISTICS; CHEMICAL CHARACTERISTICS; RADIOACTIVITY; AND RECOMMENDED ANALYTICAL

METHODS. REFERENCES FOR EACH OF THE REQUIREMENTS ARE INCLUDED IN THE APPENDIX.

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 (.35^)

INSTITUTION NAME: U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, PUBLIC HEALTH SERVICE.

IRIS ACCESSION NUMBER: EW004186

TITLE: GRAPHICAL METHOD FOR CALCULATING BIOCHEMICAL OXYGEN DEMAND.

PERSONAL AUTHOR: KLEIN, ROBERT L.; AND OTHERS

DESCRIPTOR: CALCULATION; *CHEMICAL ANALYSIS; *DATA ANALYSIS; *GRAPHS; MATHEMATICS APPLICATIONS; MEASUREMENT; *LABORATORY PROCEDURES; *WATER POLLUTION CONTROL; *BIOCHEMICAL OXYGEN DEMAND; *WASTEWATER TREATMENT

ABSTRACT: A MATHEMATICALLY EQUIVALENT METHOD OF HANDLING BOD TEST RESULTS THAT CONSISTS OF PLOTTING A GRAPH OF DISSOLVED OXYGEN REMAINING AFTER INCUBATION IN A SERIES OF GRADUATED DILUTIONS VERSUS VOLUME OF SAMPLE ADDED IS DESCRIBED. ADVANTAGES DETAILED INCLUDE A REDUCTION IN THE NUMBER OF D.O. DETERMINATIONS AND MORE DETAILED RESULTS.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION; V51 N9 P2257-2266 SEP 79

IRIS ACCESSION NUMBER: EW004187

TITLE: CYANIDE AND THIOCYANATE IN COAL GASIFICATION WASTEWATERS.

PERSONAL AUTHOR: LUTHY, RICHARD G.; AND OTHERS

DESCRIPTOR: *CHEMICAL ANALYSIS; CHEMICAL REACTIONS; *ENVIRONMENTAL RESEARCH; CHEMISTRY; *FUELS; *LABORATORY TECHNIQUES; MEASUREMENT; TECHNOLOGICAL ADVANCEMENT; TECHNOLOGY; *WATER POLLUTION CONTROL; *CYANIDES; *THIOCYNATES; COAL CONVERSION

ABSTRACT: THIS PUBLICATION DISCUSSES THE DEVELOPMENT OF SUITABLE ANALYTICAL METHODS FOR PRESERVING AND IDENTIFYING CYANIDE AND THIOCYANATE IN GASIFICATION WASTEWATERS AND DETAILS THE INVESTIGATION OF AQUEOUS REACTION PATHWAYS LEADING TO THE FORMATION OF THIOCYANATE FROM CYANIDE.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION; V51 N9 P2267-2282 SEP 79

IRIS ACCESSION NUMBER: EW004188

TITLE: STATISTICAL EVALUATION OF SAMPLING FREQUENCIES IN MONITORING NETWORKS.

PERSONAL AUTHOR: WARD, ROBERT C.; AND OTHERS

DESCRIPTOR: *DATA ANALYSIS; EVALUATION; *EVALUATION METHODS; MEASURMENT; *MONITORING; *SAMPLING; *STATISTICAL ANALYSIS; *WATER POLLUTION CONTROL; *WATER QUALITY

ABSTRACT: THE DEVELOPMENT AND DEMONSTRATION OF A PRACTICAL PROCEDURE FOR THE EVALUATION AND REVISION OF REGULATORY WATER QUALITY MONITORING NETWORKS IS DISCUSSED. THE EVALUATION IS BASED ON AVAILABLE DATA, AND USES COMMONLY AVAILABLE DATA SUMMARY ROUTINES AND SIMPLE STATISTICS. PRACTICAL USE OF RESULTS IS STRESSED.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION; V51 N9 P2290-2300 SEP 79

IRIS ACCESSION NUMBER: EW004189

TITLE: THE MARKET FOR WATER MANAGEMENT CHEMICALS.

PERSONAL AUTHOR: CROSS, ANDREW C.

DESCRIPTOR: *CHEMICAL INDUSTRY; CHEMISTRY; *COST EFFECTIVENESS; *ECONOMIC CLIMATE; *ECONOMIC FACTORS; ECONOMICS; *WASTEWATER TREATMENT; MANUFACTURING INDUSTRY; MARKETING; *WATER POLLUTION CONTROL; *MANUFACTURERS

ABSTRACT: DISCUSSED ARE THE FOLLOWING ASPECTS OF THE WASTEWATER TREATMENT CHEMICAL INDUSTRY: (1) TYPE OF COMPANIES FROM THE LARGE MANUFACTURERS TO THE FOREIGN COMPANIES AND THEIR PRODUCTION CHARACTERISTICS; (2)CHEMICALS AND TREATMENT COSTS; (3) PRESENT CHEMICAL INDUSTRY ECONOMIC TRENDS; AND (4) PROJECTIONS FOR THE MARKET OVER THE NEXT SEVERAL YEARS.

AVAILABILITY: ENVIRONMENTAL SCIENCE & TECHNOLOGY; V13 N9 P1050-1056 SEPT 79

IRIS ACCESSION NUMBER: EW004190

PUBLICATION DATE: SEP 79

TITLE: RADIOMETRIC METHOD FOR THE DIRECT DETERMINATION OF COPPER IN NATURAL WATERS.

PERSONAL AUTHOR: DUBOIS, HENRY R.; SHARMA, G. M.

DESCRIPTOR: *INSTRUMENTATION; WATER QUALITY; NATURAL RESOURCES; *CHEMISTRY; *RESEARCH; *WATER POLLUTION CONTROL; ENVIRONMENTAL INFLUENCES; *OCEANOLOGY; *METALS

DESCRIPTIVE NOTE: 1702-1705P.

ABSTRACT: THIS PAPER REPORTS THE RESULTS OF STUDIES TO DEVELOP A SIMPLE RADIOMETRIC METHOD FOR THE DIRECT DETERMINATION OF COPPER IN OCEAN WATERS.

AVAILABILITY: ANALYICAL CHEMISTRY; V51 N11

IRIS ACCESSION NUMBER: EW004191
PUBLICATION DATE: SEP 79

TITLE: DETERMINATION OF CHORINATED HYDROCARBONS IN WATER BY HEADSPACE GAS CHROMATOGRAPHY.

PERSONAL AUTHOR: DIETZ, JR., EDWARD A; SINGLEY, KENNETH F.

DESCRIPTOR: WATER QUALITY; CHROMATOGRAPHY; *CHEMICAL ANALYSIS; *LABORATORY TECHNIQUES; *RESEARCH; *WATER POLLUTION CONTROL; *CHLORINATED HYDROCARBONS; *HYDROCARBONS

DESCRIPTIVE NOTE: 1809-1814P.

ABSTRACT: THIS ARTICLE DISCUSSES THE EFFECTIVENESS OF HEADSPACE GAS CHROMATOGRAPHY IN DETERMINING CONCENTRATIONS OF CHLOROFORM, CARBON TETRACHLORIDE, AND OTHER CHLORINATED HYDROCARBONS IN DRINKING, NATURAL, AND INDUSTRIAL WATERS. EFFECTS OF THE ANALYSIS CONDITIONS AND SAMPLE HISTORY ARE EVALUATED IN DETAIL.

AVAILABILITY: ANALYTICAL CHEMISTRY; V51 N11

IRIS ACCESSION NUMBER: EW004192

PUBLICATION DATE: 79

TITLE: WATERBORNE DISEASE CONTROL. WATER AND DISEASE, LESSON 1. HOMESTUDY COURSE 3014-G.

DESCRIPTOR: *DISEASE CONTROL; ENVIRONMENT; *HOME STUDY; *INSTRUCTIONAL MATERIALS; *INDIVIDUALIZED INSTRUCTION; PUBLIC HEALTH; *POST SECONDARY EDUCATION; *SANITATION; *WATER POLLUTION CONTROL; WATER QUALITY

DESCRIPTIVE NOTE: 9P. FOR RELATED DOCUMENTS SEE EW 004 193-202

ABSTRACT: THIS DOCUMENT IS ONE IN A SERIES OF HOME STUDY LESSONS WHICH ARE PART OF A COURSE ON DISEASE CONTROL FOR THE SANITARIAN. EACH LESSON CONTAINS THREE CATEGORIES OF REFERENCES TO ASSIST THE STUDENT. PRIMARY REFERENCES ARE REQUIRED READING, REVIEW REFERENCES PROVIDE ADDITIONAL BACKGROUND, AND SUPPLEMENTARY REFERENCES PROVIDE DETAILED COVERAGE OF THE SUBJECT MATTER. EACH LESSON CONTAINS A 25 QUESTION MULTIPLE-CHOICE TEST, A 25 QUESTION TRUE-FALSE TEST, AND AN ANSWER SHEET. THIS LESSON, NUMBER ONE, DISCUSSES WATER AND DISEASE.

AVAILABILITY: DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, PUBLIC HEALTH SERVICE, CENTER FOR DISEASE CONTROL, ATLANTA, GA 30333 ($13.00 FOR ENTIRE SET OF 11 LESSONS.)

INSTITUTION NAME: CENTER OF DISEASE CONTROL, BUREAU OF TRAINING, HOMESTUDY COURSE.

IRIS ACCESSION NUMBER: EW004193
PUBLICATION DATE: 79

TITLE: WATERBORNE DISEASE CONTROL. THE NATURE AND SOURCES OF WATER, LESSON 2. HOMESTUDY COURSE 3014-G.

DESCRIPTOR: *DISEASE CONTROL; *ENVIRONMENT; HOME STUDY; INSTRUCTIONAL MATERIALS; *INDIVIDUALIZED INSTRUCTION; *NATURAL RESOURCES; PUBLIC HEALTH; POST SECONDARY EDUCATION; SANITATION; *WATER RESOURCES; WATER POLLUTION CONTROL; WATER QUALITY

DESCRIPTIVE NOTE: 8P. FOR RELATED DOCUMENTS, SEE EW 004 192-202

ABSTRACT: THIS DOCUMENT IS ONE IN A SERIES OF HOME STUDY LESSONS WHICH ARE PART OF A COURSE ON DISEASE CONTROL FOR THE SANITARIAN. EACH LESSON CONTAINS THREE CATEGORIES OF REFERENCES TO ASSIST THE STUDENT. PRIMARY REFERENCES ARE REQUIRED READING, REVIEW REFERENCES PROVIDE ADDITIONAL INFORMATION, AND SUPPLEMENTARY REFERENCES PROVIDE DETAILED COVERAGE OF THE SUBJECT MATTER. EACH LESSON CONTAINS A 25 QUESTION MULTIPLE CHOICE TEST, A 25 QUESTION TRUE-FALSE TEST, AND AN ANSWER SHEET. THIS LESSON, NUMBER TWO, DISCUSSES THE NATURE AND SOURCES OF WATER.

AVAILABILITY: DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, PUBLIC HEALTH SERVICE, CENTER FOR DISEASE CONTROL, ATLANTA, GA 30333 ($13.00 FOR ENTIRE SET OF 11 LESSONS)

INSTITUTION NAME: CENTER FOR DISEASE CONTROL, BUREAU OF TRAINING, HOMESTUDY COURSE.

IRIS ACCESSION NUMBER: EW004194

PUBLICATION DATE: 79

TITLE: WATERBORNE DISEASE CONTROL. DRINKING WATER STANDARDS, LESSON 3. HOMESTUDY COURSE 3014-G.

DESCRIPTOR: *DRINKING WATER; *DISEASE CONTROL; *ENVIRONMENTAL INFLUENCES; *HOME STUDY; *INSTRUCTIONAL MATERIALS; *INDIVIDUALIZED INSTRUCTION; PUBLIC HEALTH; *POST SECONDARY EDUCATION; *STANDARDS; SANITATION; *WATER SUPPLY; WATER POLLUTION CONTROL; *WATER QUALITY

DESCRIPTIVE NOTE: 9P. FOR RELATED DOCUMENTS, SEE EW 004192-202

ABSTRACT: THIS DOCUMENT IS ONE IN A SERIES OF HOME STUDY LESSONS WHICH ARE PART OF A COURSE ON DISEASE CONTROL FOR THE SANITARIAN. EACH LESSON CONTAINS THREE CATEGORIES OF REFERENCES TO ASSIST THE STUDENT. PRIMARY REFERENCES ARE REQUIRED READING, REVIEW REFERENCES PROVIDE ADDITIONAL INFORMATION, AND SUPPLEMENTARY REFERENCES PROVIDE DETAILED COVERAGE OF THE SUBJECT MATTER. EACH LESSON CONTAINS A 25 QUESTION MULTIPLE CHOICE TEST, A 25 QUESTION TRUE-FALSE TEST, AND AN ANSWER SHEET. THIS LESSON, NUMBER THREE, DISCUSSES DRINKING WATER STANDARDS.

AVAILABILITY: DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, PUBLIC HEALTH SERVICE, CENTER FOR DISEASE CONTROL, ATLANTA, GA 30333 ($13.00 FOR ENTIRE SET OF 11 LESSONS.)

INSTITUTION NAME: CENTER FOR DISEASE CONTROL, BUREAU OF TRAINING, HOMESTUDY COURSE.

IRIS ACCESSION NUMBER: EW004195

PUBLICATION DATE: 79

TITLE: WATERBORNE DISEASE CONTROL, CHEMISTRY AND MICROBIOLOGY, LESSON 4. HOMESTUDY COURSE 3014-G.

DESCRIPTOR: *CHEMISTRY; *DISEASE CONTROL; HOME STUDY; *INSTRUCTIONAL MATERIALS; *INDIVIDUALIZED INSTRUCTION; *MICROBIOLOGY; PUBLIC HEALTH; *POST SECONDARY EDUCATION; SANITATION; WATER POLLUTION CONTROL; *WATER QUALITY

DESCRIPTIVE NOTE: 11P. FOR RELATED DOCUMENTS, SEE EW 004 192-202

ABSTRACT: THIS DOCUMENT IS ONE IN A SERIES OF HOME STUDY LESSONS WHICH ARE PART OF A COURSE ON DISEASE CONTROL FOR THE SANITARIAN. EACH LESSON CONTAINS THREE CATEGORIES OF REFERENCES TO ASSIST THE STUDENT. PRIMARY REFERENCES ARE REQUIRED READING, REVIEW REFERENCES PROVIDE ADDITIONAL INFORMATION, AND SUPPLEMENTARY REFERENCES PROVIDE DETAILED COVERAGE OF THE SUBJECT MATTER. EACH LESSON CONTAINS A 25 QUESTION MULTIPLE CHOICE TEST A 25 QUESTION TRUE-FALSE TEST, AND AN ANSWER SHEET. THIS LESSON, NUMBER FOUR, DISCUSSES CHEMISTRY AND MICROBIOLOGY.

AVAILABILITY: DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, PUBLIC HEALTH SERVICE, CENTER FOR DISEASE CONTROL, ATLANTA, GA 30333 ($13.00 FOR ENTIRE SET OF 11 LESSONS)

INSTITUTION NAME: CENTER FOR DISEASE CONTROL, BUREAU OF TRAINING, HOMESTUDY COURSE.

IRIS ACCESSION NUMBER: EW004196

PUBLICATION DATE: 79

TITLE: WATERBORNE DISEASE CONTROL. BASIC MATHEMATICS, LESSON 5. HOMESTUDY COURSE 3014-G.

DESCRIPTOR: DISEASE CONTROL; HOME STUDY; *INSTRUCTIONAL MATERIALS; INDIVIDUALIZED INSTRUCTION; *MATHEMATICS; PUBLIC HEALTH; *POST SECONDARY EDUCATION; SANITATION; *WATER POLLUTION CONTROL; WATER QUALITY

DESCRIPTIVE NOTE: 44P. FOR RELATED DOCUMENTS, SEE EW 004 192-202

ABSTRACT: THIS DOCUMENT IS ONE IN A SERIES OF HOME STUDY LESSONS WHICH ARE PART OF A COURSE ON DISEASE CONTROL FOR THE SANITARIAN. EACH LESSON CONTAINS THREE CATEGORIES OF REFERENCES TO ASSIST THE STUDENT. PRIMARY REFERENCES ARE REQUIRED READING, REVIEW REFERENCES PROVIDE ADDITIONAL INFORMATION, AND SUPPLEMENTARY REFERENCES PROVIDE DETAILED COVERAGE OF THE SUBJECT MATTER. EACH LESSON CONTAINS A 25 QUESTION MULTIPLE-CHOICE TEST, A 25 QUESTION TRUE-FALSE TEST, AND AN ANSWER SHEET. THIS LESSON, NUMBER FIVE, DISCUSSES BASIC MATHEMATICS.

AVAILABILITY: DEPARTMENT OF HEALTH, EDUCATION AND WELFARE, PUBLIC HEALTH SERVICE, CENTER FOR DISEASE CONTROL, ATLANTA, GA 30333 ($13.00 FOR ENTIRE SET OF 11 LESSONS)

INSTITUTION NAME: CENTER FOR DISEASE CONTROL, BUREAU OF TRAINING, HOMESTUDY COURSE.

IRIS ACCESSION NUMBER: EW004197

PUBLICATION DATE: 79

TITLE: WATERBORNE DISEASE CONTROL. HYDRAULICS, LESSON 6. HOMESTUDY COURSE 3014-G.

DESCRIPTOR: DISEASE CONTROL; *HYDRAULICS; HOME STUDY; *INSTRUCTIONAL MATERIALS; *INDIVIDUALIZED INSTRUCTION; PUBLIC HEALTH; POST SECONDARY EDUCATION; SANITATION; *WATER POLLUTION CONTROL; WATER QUALITY

DESCRIPTIVE NOTE: 19P. FOR RELATED DOCUMENTS, SEE EW 004192-202

ABSTRACT: THIS DOCUMENT IS ONE IN A SERIES OF HOME STUDY LESSONS WHICH ARE PART OF A COURSE ON DISEASE CONTROL FOR THE SANITARIAN. EACH LESSON CONTAINS THREE CATEGORIES OF REFERENCES TO ASSIST THE STUDENT. PRIMARY REFERENCES ARE REQUIRED READING, REVIEW REFERENCES PROVIDE ADDITIONAL INFORMATION, AND SUPPLEMENTARY REFERENCES PROVIDE DETAILED COVERAGE OF THE SUBJECT MATTER. EACH LESSON CONTAINS A 25 QUESTION MUTLIPLE-CHOICE TEST, A 25 QUESTION TRUE-FALSE TEST, AND AN ANSWER SHEET. THIS LESSON, NUMBER SIX, DISCUSSES BASIC HYDRAULICS.

AVAILABILITY: DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, PUBLIC HEALTH SERVICE, CENTER FOR DISEASE CONTROL, ATLANTA, GA 30333 ($13.00 FOR ENTIRE SET OF 11 LESSONS)

INSTITUTION NAME: CENTER FOR DISEASE CONTROL, BUREAU OF TRAINING, HOMESTUDY COURSE.

IRIS ACCESSION NUMBER: EW004198

PUBLICATION DATE: 79

TITLE: WATERBORNE DISEASE CONTROL. MUNICIPAL WATER TREATMENT, LESSON 7. HOMESTUDY COURSE 3014-G.

DESCRIPTOR: *DISEASE CONTROL; HOME STUDY; *INSTRUCTIONAL MATERIALS; *INDIVIDUALIZED INSTRUCTION; *MUNICIPALITIES; PUBLIC HEALTH; *POST SECONDARY EDUCATION; *SANITATION; *TRAINING PROGRAMS; UTILITIES; *WATER TREATMENT; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 9P. FOR RELATED DOCUMENTS, SEE EW 004 192-202

ABSTRACT: THIS DOCUMENT IS ONE IN A SERIES OF HOME STUDY LESSONS WHICH ARE PART OF A COURSE ON DISEASE CONTROL FOR THE SANITARIAN. EACH LESSON CONTAINS THREE CATEGORIES OF REFERENCES TO ASSIST THE STUDENT. PRIMARY REFERENCES ARE REQUIRED READING, REVIEW REFERENCES PROVIDE ADDITIONAL INFORMATION, AND SUPPLEMENTARY REFERENCES PROVIDE DETAILED COVERAGE OF THE SUBJECT MATTER. EACH LESSON CONTAINS A 25 QUESTION MULTIPLE-CHOICE TEST, A 25 QUESTION TRUE-FALSE TEST, AND AN ANSWER SHEET. THIS LESSON, NUMBER SEVEN, DISCUSSES MUNICIPAL WATER TREATMENT.

AVAILABILITY: DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, PUBLIC HEALTH SERVICE, CENTER FOR DISEASE CONTROL, ATLANTA, GA 30333 ($13.00 FOR ENTIRE SET OF 11 LESSONS)

INSTITUTION NAME: CENTER FOR DISEASE CONTROL. BUREAU OF TRAINING, HOMESTUDY COURSE.

IRIS ACCESSION NUMBER: EW004199

PUBLICATION DATE: 79

TITLE: WATERBORNE DISEASE CONTROL. MUNICIPAL WATER TREATMENT, PART 2, LESSON 8. HOMESTUDY COURSE 3014-G.

DESCRIPTOR: *DISEASE CONTROL; HOMESTUDY; *INSTRUCTIONAL MATERIALS; *INDIVIDUALIZED INSTRUCTION; MUNICIPALITIES; PUBLIC HEALTH; POST SECONDARY EDUCATION; *SANITATION; *UTILITIES; *WATER TREATMENT; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 9P. FOR RELATED DOCUMENTS, SEE EW 004 192-202

ABSTRACT: THIS DOCUMENT IS ONE IN A SERIES OF HOME STUDY LESSONS WHICH ARE PART OF A COURSE ON DISEASE CONTROL FOR THE SANITARIAN. EACH LESSON CONTAINS THREE CATEGORIES OF REFERENCES TO ASSIST THE STUDENT. PRIMARY REFERENCES ARE REQUIRED READING, REVIEW REFERENCES PROVIDE ADDITIONAL READING, AND SUPPLEMENTARY REFERENCES PROVIDE DETAILED COVERAGE OF THE SUBJECT MATTER. EACH LESSON CONTAINS A 25 QUESTION MULTIPLE-CHOICE TEST, A 25 QUESTION TRUE-FALSE TEST, AND AN ANSWER SHEET. THIS LESSON, NUMBER EIGHT, DISCUSSES MUNICIPAL WATER TREATMENT.

AVAILABILITY: DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, PUBLIC HEALTH SERVICE, CENTER FOR DISEASE CONTROL, ATLANTA, GA 30333 ($13.00 FOR ENTIRE SET OF 11 LESSONS)

INSTITUTION NAME: CENTER FOR DISEASE CONTROL, BUREAU OF TRAINING, HOMESTUDY COURSE.

IRIS ACCESSION NUMBER: EW004200

PUBLICATION DATE: 79

TITLE: WATERBORNE DISEASE CONTROL. INDIVIDUAL WATER SUPPLIES, LESSON 9. HOMESTUDY COURSE 3014-G.

DESCRIPTOR: DISEASE CONTROL; HOME STUDY; *INSTRUCTIONAL MATERIALS; *INDIVIDUALIZED INSTRUCTION; PUBLIC HEALTH; *POST SECONDARY EDUCATION; *SANITATION; *UTILITIES; *WATER SUPPLY; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 9P. FOR RELATED DOCUMENTS, SEE EW 004 192-202

ABSTRACT: THIS DOCUMENT IS ONE IN A SERIES OF HOME STUDY LESSONS WHICH ARE PART OF A COURSE ON DISEASE CONTROL FOR THE SANITARIAN. EACH LESSON CONTAINS THREE CATEGORIES OF REFERENCES TO ASSIST THE STUDENT. PRIMARY REFERENCES ARE REQUIRED READING, REVIEW REFERENCES PROVIDE ADDITIONAL INFORMATION, AND SUPPLEMENTARY REFERENCES PROVIDE DETAILED COVERAGE OF THE SUBJECT MATTER. EACH LESSON CONTAINS A 25 QUESTION MULTIPLE-CHOICE TEST, A 25 QUESTION TRUE-FALSE TEST, AND AN ANSWER SHEET. THIS LESSON, NUMBER NINE, DISCUSSES INDIVIDUAL WATER SUPPLIES.

AVAILABILITY: DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, PUBLIC HEALTH SERVICE, CENTER FOR DISEASE CONTROL, ATLANTA, GA 30333 ($13.00 FOR ENTIRE SET OF 11 LESSONS)

INSTITUTION NAME: CENTER FOR DISEASE CONTROL, BUREAU OF TRAINING, HOMESTUDY COURSE.

IRIS ACCESSION NUMBER: EW004201

PUBLICATION DATE: 79

TITLE: WATERBORNE DISEASE CONTROL. INDIVIDUAL WATER SUPPLIES, PART 2, LESSON 10. HOMESTUDY COURSE 3014-G.

DESCRIPTOR: *DISEASE CONTROL; *HOME STUDY; *INSTRUCTIONAL MATERIALS; *INDIVIDUALIZED INSTRUCTION; *OPERATIONS (WATER); PUBLIC HELATH; *POST HEALTH; *POST SECONDARY EDUCATION; SANITATION; UTILITIES; *WATER SUPPLY; *WATER TREATMENT; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 10P. FOR RELATED DOCUMENTS, SEE EW 004192-202

ABSTRACT: THIS DOCUMENT IS ONE IN A SERIES OF HOME STUDY LESSONS WHICH ARE PART OF A COURSE ON DISEASE CONTROL FOR THE SANITARIAN. EACH LESSON CONTAINS THREE CATEGORIES OF REFERENCES TO ASSIST THE STUDENT. PRIMARY REFERENCES ARE REQUIRED READING, REVIEW REFERENCES PROVIDE ADDITIONAL INFORMATION, AND SUPPLEMENTARY REFERENCES PROVIDE DETAILED COVERAGE OF THE SUBJECT MATTER. EACH LESSON CONTAINS A 25 QUESTION MULTIPLE-CHOICE TEST, A 25 QUESTION TRUE-FALSE TEST, AND AN ANSWER SHEET. THIS LESSON, NUMBER TEN, DISCUSSES INDIVIDUAL WATER SUPPLIES.

AVAILABILITY: DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, PUBLIC HEALTH SERVICE, CENTER FOR DISEASE CONTROL, ATLANTA, GA 30333 ($13.00 FOR ENTIRE SET OF 11 LESSONS.)

INSTITUTION NAME: CENTER FOR DISEASE CONTROL, BUREAU OF TRAINING, HOMESTUDY COURSE.

IRIS ACCESSION NUMBER: EW004202
PUBLICATION DATE: 79

TITLE: WATERBORNE DISEASE CONTROL. PLUMBING AND CROSS-CONNECTIONS, LESSON 11. HOMESTUDY COURSE 3014-G.

DESCRIPTOR: *CROSS-CONNECTIONS; *DISEASE CONTROL; HOME STUDY; *INSTRUCTIONAL MATERIALS; *INDIVIDUALIZED INSTRUCTION; *PIPES; *PLUMBING; PUBLIC HEALTH; SANITATION; *WATER DISTRIBUTION; WATER SUPPLY; *WATER TREATMENT; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 6P. FOR RELATED DOCUMENTS, SEE EW 004192-201

ABSTRACT: THIS DOCUMENT IS ONE IN A SERIES OF HOME STUDY LESSONS WHICH ARE PART OF A COURSE ON DISEASE CONTROL FOR THE SANITARIAN. EACH LESSON CONTAINS THREE CATEGORIES OF REFERENCES TO ASSIST THE STUDENT. PRIMARY REFERENCES ARE REQUIRED READING, REVIEW REFERENCES PROVIDE ADDITIONAL INFORMATION, AND SUPPLEMENTARY REFERENCES PROVIDE DETAILED COVERAGE OF THE SUBJECT MATTER. EACH LESSON CONTAINS A 25 QUESTION MULTIPLE-CHOICE TEST, A 25 QUESTION TRUE-FALSE TEST, AND AN ANSWER SHEET. THIS LESSON, NUMBER ELEVEN, DISCUSSES PLUMBING AND CROSS-CONNECTIONS.

AVAILABILITY: DEPARTMENT OF HEALTH, EDUCATION AND WELFARE, PUBLIC HEALTH SERVICE, CENTER FOR DISEASE CONTROL, ATLANTA, GA 30333 ($13.00 FOR ENTIRE SET OF 11 LESSONS)

INSTITUTION NAME: CENTER FOR DISEASE CONTROL, BUREAU OF TRAINING, HOMESTUDY COURSE.

IRIS ACCESSION NUMBER: EW004203

PUBLICATION DATE: SEP 79

TITLE: COMPARING DIRECT-DRIVE AND LOW-SPEED SURFACE AERATORS.

PERSONAL AUTHOR: WIGHT, JEFFREY L.

DESCRIPTOR: *EQUIPMENT; *EQUIPMENT EVALUATION; EQUIPMENT STANDARDS; FACILITIES; INDUSTRIAL WASTEWATER; TECHNOLOGY; WASTES; *WASTEWATER TREATMENT; *WATER POLLUTION CONTROL; *SURFACE AERATORS

DESCRIPTIVE NOTE: 60-62P.

ABSTRACT: FIELD TESTS, CONDUCTED TO COMPARE DIRECT-DRIVE VERSUS LOW-SPEED AERATOR PERFORMANCE AND TO DETERMINE IF ANY DIFFERENCES EXISTED, ARE DESCRIBED. RESULTS INDICATE THAT DIRECT-DRIVE AERATORS ARE AS EFFECTIVE AS LOW-SPEED AERATORS IN ACTIVATED SLUDGE PROCESSES AND MAY BE MORE ECONOMICAL, DUE TO REDUCED MAINTENANCE AND ENERGY COSTS.

AVAILABILITY: POLLUTION ENGINEERING; V11 N9

IRIS ACCESSION NUMBER: EW004204
PUBLICATION DATE: SEP 79

TITLE: SMALL TOWN FINDS WAY TO PAY FOR TREATMENT.

PERSONAL AUTHOR: MASTELLER, EARL H.

DESCRIPTOR: CITIZEN PARTICIPATION; COMMUNITY ACTION; COMMUNITY DEVELOPMENT; *CONSTRUCTION PROGRAMS; DEVELOPMENT; *FACILITIES; LAND APPLICATION; *WASTEWATER TREATMENT; *FINANCIAL SUPPORT; FINANCIAL PROBLEMS; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 64-66P.

ABSTRACT: THE APPROACH UTILIZED BY WATERFORD TOWNSHIP, NEW JERSEY TO OBTAIN A NEW SEWAGE TREATMENT FACILITY IS DISCUSSED. THE ESSENTIAL INGREDIENTS WERE LAND APPLICATION AND THE AERATED FACULTATIVE LAGOON TREATMENT PROCESS, A UNIQUE SITE, THE PERSEVERANCE OF AUTHORITY MEMBERS AND PROFESSIONALS, AND AN AGGRESSIVE SEARCH FOR GRANTS-IN-AID.

AVAILABILITY: POLLUTION ENGINEERING; V11 N9

IRIS ACCESSION NUMBER: EW004205

PUBLICATION DATE: SEP 79

TITLE: LAND APPLICATION OF SLUDGE.

PERSONAL AUTHOR: CROSS, JR., FRANK L.

DESCRIPTOR: EQUIPMENT; *ENVIRONMENT; PUBLIC HEALTH; RECYCLING; TECHNOLOGY; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; REGULATIONS; *LAND APPLICATION; APPLICATION METHODS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 83-86P.

ABSTRACT: DISCUSSED ARE THE VARIOUS METHODS OF LAND SPREADING OF SLUDGE, THE REGULATORY CONSIDERATIONS CONCERNING THESE METHODS, AND THEIR ADVANTAGES AND LIMITATIONS. A COMPARISON OF SLUDGE APPLICATION DEVICES IS PRESENTED.

AVAILABILITY: POLLUTION ENGINEERING; V11 N9

IRIS ACCESSION NUMBER: EW004206

TITLE: INFORMATION AND THE WATER SUPPLY INDUSTRY.

DESCRIPTOR: COMMUNICATIONS; ENGINEERING; *INFORMATION TRANSFER; *INFORMATION DISSEMINATION; *DATA BASES; *WATER TREATMENT; *WATER SUPPLY; TECHNOLOGY; *WATER POLLUTION CONTROL; *DATA PROCESSING

ABSTRACT: DISCUSSED ARE THE INFORMATION RETRIEVAL SYSTEMS AVAILABLE TO PEOPLE IN THE WATER QUALITY INDUSTRY. IN PARTICULAR, THE SERVICES OF THE AWWA TECHNICAL LIBRARY ARE

OUTLINED.
AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL. V71 N9 P13-20 SEP 79

IRIS ACCESSION NUMBER: EW004207

TITLE: INCREASING WATER AND SEWER RATE SCHEDULES: A TOOL FOR CONSERVATION.

PERSONAL AUTHOR: MCGARRY, ROBERT S; AND BRUSNIGHAN, JOHN M.

DESCRIPTOR: *CONSERVATION; *ECONOMICS; *WATER SUPPLY; WATER POLLUTION CONTROL; *SEWER RATES; *EDUCATION; UTILITIES; *WASTEWATER TREATMENT; *GUIDELINES; *WATER TREATMENT; *WATER CONSERVATION; *PROGRAM DESCRIPTIONS; *WASHINGTON, D.C.

ABSTRACT: HIGHLIGHTED IS THE CONSERVATION ORIENTED RATE STRUCTURE PROGRAM UNDERTAKEN IN WASHINGTON, D.C. TO ENCOURAGE WATER CONSERVATION AND WASTE REDUCTION.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V71 N9 P474-479 SEP 79

IRIS ACCESSION NUMBER: EW004208

TITLE: UTILITY REAPS BENEFITS FROM REMOTE METERING PROGRAM.

PERSONAL AUTHOR: EICHENLAUB, CHRISTINA
DESCRIPTOR: *UTILITIES; *EQUIPMENT; *WATER SUPPLY; *EDUCATION; *METRIC SYSTEM; COST EFFECTIVENESS; *WATER METERS; *PUBLIC RELATIONS; TECHNOLOGY

ABSTRACT: DESCRIBED IS THE METER IMPROVEMENT PROGRAM OF THE DEPARTMENT OF PUBLIC UTILITIES OF KALAMAZOO, MICHIGAN. DISCUSSED ARE THE METRIC METERING PROGRAM AND THE COMMUNITY EDUCATION PROGRAM OF THE UTILITY COMPANY.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V71 N9 P480-485 SEP 79.

IRIS ACCESSION NUMBER: EW004209

TITLE: DEVELOPING A CONSERVATION PROGRAM TAILORED TO AREA NEEDS.

PERSONAL AUTHOR: MINTON, GARY R.; AND OTHERS

DESCRIPTOR: *CONSERVATION; *WATER SUPPLY; *ALASKA; WATER POLLUTION CONTROL; COST EFFECTIVENESS; *EDUCATION; *UTILITIES; *PROGRAM DESCRIPTIONS; EQUIPMENT

ABSTRACT: REPORTED ARE THE RESULTS OF AN ANALYSIS CONDUCTED TO DETERMINE THE MOST APPROPRIATE WATER CONSERVATION PROGRAM FOR ANCHORAGE, ALASKA.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V71 N9 P486-496 SEP 79.

IRIS ACCESSION NUMBER: EW004210

TITLE: A SERVICE CENTER COMPLEX DESIGNED FOR TODAY AND TOMORROW.

PERSONAL AUTHOR: TINKEY, A.M.

DESCRIPTOR: *FACILITY GUIDELINES; *OPERATIONS (WATER); *UTILITIES; COST EFFECTIVENESS; *MISSOURI; *WATER SUPPLY; CONSERVATION; *MAINTENANCE; *ADMINISTRATIVE ORGANIZATION; EQUIPMENT

ABSTRACT: DESCRIBED ARE THE PAST, PRESENT, AND PROJECTED OPERATIONAL REQUIRMENTS SUCCESSFULLY INCORPORTATED BY THE ST. LOUIS COUNTY WATER COMPANY IN THE DESIGN OF ITS NEW SERVICE CENTER COMPLEX.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V71 N9 P497-503 SEP 79.

IRIS ACCESSION NUMBER: EW004211

PUBLICATION DATE: SEP 79

TITLE: CALCULATE ACTIVATED SLUDGE SRT ACCURATELY.

PERSONAL AUTHOR: BENJES, JR., HENRY H.
DESCRIPTOR: *ACTIVATED SLUDGE; CALCULATIONS; *OPERATIONS (WASTEWATER); *MEASUREMENT; *WASTEWATER TREATMENT; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 30-31P.

ABSTRACT: THIS ARTICLE DISCUSSES A NEW METHOD FOR ACCURATELY APPROXIMATING SOLIDS RETENTION TIME FOR ACTIVATED SLUDGE TREATMENT FACILITIES.

AVAILABILITY: WATER AND WASTES ENGINEERING; V16 N9

IRIS ACCESSION NUMBER: EW004212

PUBLICATION DATE: SEP 79

TITLE: FILTRATION, CONSERVATION, SPOTLIGHTED IN SAN FRANCISCO.

PERSONAL AUTHOR: HECKROTH, CHARLES W.

DESCRIPTOR: *NATURAL RESOURCES; *CONSERVATION; WATER TREATMENT; MUNICIPALITIES; *UTILITIES; *ECONOMICS; EDUCATION; TECHNOLOGY; OPERATIONS (WATER); *FILTRATION

DESCRIPTIVE NOTE: 40-43P.

ABSTRACT: THIS ARTICLE DISCUSSES THE CONSERVATION PROGRAMS

IMPLEMENTED IN DENVER; WASHINGTON, D.C.; AND SEATTLE TO CONTROL THEIR WATER RESOURCES AND INSTITUTE PRACTICAL PROGRAMS FOR THEIR CUSTOMERS.

AVAILABILITY: WATER AND WASTES ENGINEERING; V16 N9

IRIS ACCESSION NUMBER: EW004213

PUBLICATION DATE: SEP 79

TITLE: FILTRATION TECHNIQUES GET MAJOR ATTENTION.

PERSONAL AUTHOR: HECKROTH, CHARLES W.

DESCRIPTOR: *WATER TREATMENT; EQUIPMENT; *OPERATIONS (WATER); PUBLIC HEALTH; *WATER POLLUTION CONTROL; *ASBESTOS; *FILTRATION; *RESEARCH; TECHNOLOGY; ENGINEERING

DESCRIPTIVE NOTE: 43-46, 108P.

ABSTRACT: REPORTED IS RESEARCH UNDERTAKEN TO STUDY THE EFFECTIVENESS OF ASBESTOS REMOVAL DURING WATER TREATMENT. DIFFERENT COMBINATIONS AND VARIATIONS OF UNIT PROCESSES ARE COMPARED.

AVAILABILITY: WATER AND WASTES ENGINEERING; V16 N9

IRIS ACCESSION NUMBER: EW004214

PUBLICATION DATE: SEP 79

TITLE: LAND TREATMENT VS. AWT-HOW DO COSTS COMPARE?

PERSONAL AUTHOR: CRITES, RONALD W.; AND OTHERS.

DESCRIPTOR: *WASTEWATER TREATMENT; WASTE DISPOSAL; WATER POLLUTION CONTROL; *OPERATIONS (WASTEWATER); LAND USE; *LAND APPLICATION; *COST EFFECTIVENESS; *FACILITY GUIDELINES; ENVIRONMENTAL INFLUENCES

DESCRIPTIVE NOTE: 51-53P.

ABSTRACT: EXAMINED IS THE COST EFFECTIVENESS OF LAND TREATMENT FACILITIES AND ADVANCED WASTE-WATER TREATMENT SYSTEMS AS THEY RELATE TO THE REMOVAL OF CERTAIN POLLUTANTS. IN PARTICULAR THIS STUDY EXAMINES THE SITUATION WHERE A NEW TREATMENT FACILITY MUST BE BUILT.

AVAILABILITY: WATER AND WASTES ENGINEERING; V16 N9

IRIS ACCESSION NUMBER: EW004215

PUBLICATION DATE: SEP 79

TITLE: HYDROGEN PEROXIDE MAKES AN EXCELLENT SLUDGE DEODERANT.

PERSONAL AUTHOR: POUNTNEY, PETER J.; TURNER, JAMES

DESCRIPTOR: *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT; WATER POLLUTION CONTROL; *HYDROGEN PEROXIDE; TECHNOLOGY; WASTE DISPOSAL; *ENGINEERING; *SLUDGE; *ODORS; *SULFIDES

DESCRIPTIVE NOTE: 56-57P.

ABSTRACT: THIS ARTICLE DISCUSSES THE ADDITION OF HYDROGEN PEROXIDE FOR THE PREVENTION OF SULFIDE ODORS DURING WASTEWATER TREATMENT OPERATIONS. PROCESS CHANGES AND FACILITY RENOVATION ARE OUTLINED FOR THE OCEANSIDE, CALIFORNIA, PLANT.

AVAILABILITY: WATER AND WASTES ENGINEERING; V16 N9

IRIS ACCESSION NUMBER: EW004216

PUBLICATION DATE: SEP 79

TITLE: RECYCLE GREY WATER FOR HOME IRRIGATION.

PERSONAL AUTHOR: POPKIN, BARNEY P.

DESCRIPTOR: *LAND USE; *RECYCLING; WASTEWATER TREATMENT; *WATER POLLUTION CONTROL; *ECONOMICS; TECHNOLOGY; GEOGRAPHIC REGIONS; *GREY WATER; *IRRIGATION; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 62-66P.

ABSTRACT: DISCUSSED IS THE ECONOMIC AND ENVIRONMENTAL FACTORS ASSOCIATED WITH THE UTILIZATION OF GREY WATER FOR HOME IRRIGATION PURPOSES. THE NEED FOR FIELD TRIALS AND DEMONSTRATIONS IS EMPHASIZED.

AVAILABILITY: WATER AND WASTES ENGINEERING; V16 N9

IRIS ACCESSION NUMBER: EW004217

PUBLICATION DATE: SEP 79

TITLE: IDENTIFY AND PREVENT CONFINED SPACE HAZARDS.

PERSONAL AUTHOR: NEU, BRUCE A.

DESCRIPTOR: *SAFETY; *WORK ENVIRONMENT; *SEWERS; *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT; EQUIPMENT; ENGINEERING; *ACCIDENT PREVENTION

DESCRIPTIVE NOTE: 90-93, 100P.

ABSTRACT: THIS ARTICLE DISCUSSES THE HAZARDS ASSOCIATED WITH WASTEWATER COLLECTION AND TREATMENT OPERATIONS AND PRECAUTIONS WHICH SHOULD BE IMPLEMENTED TO INSURE OPERATOR SAFETY. MOISTURE, TOXIC AND COMBUSTIBLE GASES, AND OTHER HAZARDS ARE COVERED.

AVAILABILITY: WATER AND WASTES ENGINEERING; V16 N9

IRIS ACCESSION NUMBER: EW004218

PUBLICATION DATE: SEP 79

TITLE: COMPUTER PROGRAM MEASURES INFILTRATION/INFLOW.

PERSONAL AUTHOR: O'DAY, D. KELLY; AND OTHERS.

DESCRIPTOR: *WASTEWATER TREATMENT; *OPERATIONS (WASTEWATER); EQUIPMENT; ENGINEERING; *COMPUTERS; *FACILITY GUIDELINES; *SEWERS; *COMPUTER APPLICATIONS; *MEASUREMENT; WATER POLLUTION CONTROL ACT AMENDMENTS

DESCRIPTIVE NOTE: 95-100P.

ABSTRACT: DESCRIBED IS A NEW SOFTWARE PACKAGE WHICH HAS BEEN DESIGNED TO HELP STUDY THE INFILTRATION/INFLOW OF EXTRANEOUS FLOWS INTO SANITARY SEWERS. THE SOFTWARE SYSTEM PRODUCES GRAPHIC REPRESENTATIONS OF DATA FOR ANALYSIS AND REPORTING.

AVAILABILITY: WATER AND WASTES ENGINEERING; V16 N9

IRIS ACCESSION NUMBER: EW004219

PUBLICATION DATE: SEP 79

TITLE: CHOOSE DEWATERING UNITS ACCORDING TO THE TYPE OF SLUDGE.

PERSONAL AUTHOR: SALMI, M. W.
DESCRIPTOR: *EQUIPMENT; *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT; *WASTE DISPOSAL; MANAGEMENT; SANITATION; *SLUDGE; *BELT FILTER PRESSES; *DEWATERING

DESCRIPTIVE NOTE: 103-106P.

ABSTRACT: THIS ARTICLE DISCUSSES THE UTILIZATION OF BELT FILTER PRESS EQUIPMENT IN THE DEWATERING OF SLUDGE. BENEFITS PRESENTED INCLUDE ECONOMIC; OPERATIONAL; FLEXIBILITY; AND PERFORMANCE.

AVAILABILITY: WATER AND WASTES ENGINEERING; V16 N9

IRIS ACCESSION NUMBER: EW004220

PUBLICATION DATE: SEP 79

TITLE: CORROSION CONTROL.

PERSONAL AUTHOR: SHUPE, O. K.

DESCRIPTOR: *CHEMICAL REACTIONS; *WATER SUPPLY; *UTILITIES; *PIPES; *CORROSION; *EQUIPMENT; *TECHNOLOGY; ENGINEERING

DESCRIPTIVE NOTE: 78-79,92P.

ABSTRACT: SIX METHODS FOR RETARDING CORROSION OF WATER SYSTEM COMPONENTS ARE DISCUSSED. AREAS DISCUSSED INCLUDE: PROTECTION BY DESIGN; METAL ALLOYING; ANODIC PROTECTION; AND PROTECTIVE COATINGS.

AVAILABILITY: WATER AND SEWAGE WORKS; V126 N9

IRIS ACCESSION NUMBER: EW004221

PUBLICATION DATE: SEP 79

TITLE: FIELD-SCALE EVALUATION FOR OZONE WASTEWATER DISINFECTION, PART 2.

PERSONAL AUTHOR: RAKNESS, KERWIN L.

DESCRIPTOR: *WASTEWATER TREATMENT; WATER POLLUTION CONTROL; *DISINFECTION; *OPERATIONS (WASTEWATER); *OZONE; *RESEARCH; TECHNOLOGY; *ENVIRONMENT

DESCRIPTIVE NOTE: 82-84P.

ABSTRACT: THIS ARTICLE IS THE SECOND PART OF A REPORT ON STUDIES UNDERTAKEN TO TEST THE EFFECTIVENESS OF OZONE DISINFECTION AT WASTEWATER TREATMENT FACILITIES. OZONE PRODUCTION IN RELATION TO ENVIRONMENTAL CONDITIONS IS INVESTIGATED.

AVAILABILITY: WATER AND SEWAGE WORKS; V126 N9

IRIS ACCESSION NUMBER: EW004222
PUBLICATION DATE: SEP 79

TITLE: WATER RECLAMATION PLANTS NEED COMPLETE RELIABILITY.

PERSONAL AUTHOR: ASUNO, TAKASHI; AND WASSERMAN, KURT L.

DESCRIPTOR: *WASTEWATER TREATMENT; *RECYCLING; WATER QUALITY; *OPERATIONS (WASTEWATER); PUBLIC HEALTH; UTILITIES; *FACILITIES

DESCRIPTIVE NOTE: 88-91P.

ABSTRACT: THIS ARTICLE DISCUSSES THE OPERATIONAL CONSIDERATIONS WHICH SHOULD BE TAKEN INTO ACCOUNT BY WASTEWATER RECLAMATION PLANTS. DATA FROM SEVERAL STUDIES ARE UTILIZED TO PLOT EFFLUENT VARIABILITY AND RELIABILITY OF ADVANCED WASTEWATER TREATMENT FACILITIES.

AVAILABILITY: WATER AND SEWAGE WORKS; V126 N9

IRIS ACCESSION NUMBER: EW004223

PUBLICATION DATE: SEP 79

TITLE: VOLUMETRIC MEASUREMENTS MAKE EVERY DROP COUNT.

PERSONAL AUTHOR: CLARK, DOUGLAS W.

DESCRIPTOR: *LABORATORY TECHNIQUES; *MEASUREMENT; *JOB SKILLS; *EQUIPMENT

DESCRIPTIVE NOTE: 94-96P.

ABSTRACT: THE ARTICLE DISCUSSES THE CHARACTERISTICS AND PROPER USE OF VOLUMETRIC AND OTHER CALIBRATED GLASSWARE IN PERFORMING LABORATORY ANALYSES. ITEMS DISCUSSED INCLUDE VOLUMETRIC FLASKS; BURETTES; PIPETTES; AND BEAKERS.

AVAILABILITY: WATER AND SEWAGE WORKS; V126 N9

IRIS ACCESSION NUMBER: EW004224

PUBLICATION DATE: SEP 79

TITLE: AERATION (PLUS RESINS) DOING JOB REMOVING TOC.

PERSONAL AUTHOR: SINGLEY, J. E.; AND OTHERS.

DESCRIPTOR: *WATER TREATMENT; WATER POLLUTION CONTROL; *OPERATIONS (WATER); *SYNTHETIC RESINS; COST EFFECTIVENESS; *TECHNOLOGY; EQUIPMENT; *ORGANIC CARBON

DESCRIPTIVE NOTE: 100-102P.

ABSTRACT: THIS ARTICLE DISCUSSES THE USE OF SYNTHETIC RESINS IN THE REMOVAL OF ORGANIC CARBONS DURING WATER TREATMENT OPERATIONS. EQUIPMENT OPERATION, AND EFFECTIVENESS OF THIS METHOD IS COMPARED TO TREATMENT ITH GRANULAR ACTIVATED CARBON.
AVAILABILITY: WATER AND SEWAGE WORKS; V126 N9

IRIS ACCESSION NUMBER: EW004225

PUBLICATION DATE: AUG 78

TITLE: NITRIFICATION TOWERS CUT EFFLUENT AMMONIA TO MEET STANDARDS.

PERSONAL AUTHOR: SAMPAYO, FELIX F.; NEVERGALL, ROBERT

DESCRIPTOR: *AMMONIA; CHEMICAL REACTIONS; EQUIPMENT; FACILITY GUIDELINES; MANAGEMENT; *NITRIFICATION; *OPERATIONS (WASTEWATER); *TECHNOLOGY; *TRICKLING FILTERS; *WASTEWATER TREATMENT; *WATER POLLUTION CONTROL

ABSTRACT: THIS ARTICLE REPORTS ON THE USE OF NITRIFICATION TOWERS AT A WASTEWATER TREATMENT PLANT IN OHIO. PILOT STUDIES SHOWED THAT THE 30 FOOT TOWER FILLED WITH PLASTIC TRICKLING FILTER MEDIA WAS CAPABLE OF PRODUCING EFFLUENT WHICH MEETS AMMONIA STANDARDS.

AVAILABILITY: THE AMERICAN CITY 8 COUNTY MAGAZINE, BERKSHIRE COMMON, PITTSFIELD,MA 01201 (COPIES OF ARTICLE ARE FREE)

IRIS ACCESSION NUMBER: EW004226

PUBLICATION DATE: MAR 79

TITLE: HANDBOOK FOR ANALYTICAL QUALITY CONTROL IN WATER AND WASTEWATER LABORATORIES.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; BIOLOGY; CHEMICAL ANALYSIS; EQUIPMENT SELECTION; *LABORATORY PROCEDURES; MICROBIOLOGY; *ENVIRONMENTAL PROTECTION AGENCY; *OPERATIONS (WATER); *OPERATIONS (WASTEWATER); *QUALITY CONTROL; SAFETY; *SAMPLING; WATER TREATMENT; *WASTEWATER TREATMENT; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 135P. REFERENCE NO. EPA-600/4-79-019

ABSTRACT: THIS HANDBOOK IS ADDRESSED TO LABORATORY DIRECTORS AND OTHER PERSONNEL RESPONSIBLE FOR WATER AND WASTEWATER DATA. THE SUBJECT MATTER IS CONCERNED WITH QUALITY CONTROL FOR CHEMICAL AND BIOLOGICAL TESTS AND MEASUREMENTS. CHAPTERS ARE ALSO INCLUDED ON SAMPLING, MICROBIOLOGY, RADIOCHEMISTRY, AND SAFETY AS THEY RELATE TO WATER AND WASTEWATER POLLUTION CONTROL. THE INFORMATION EMPHASIZES EARLY RECOGNITION, PREVENTION, AND CORRECTION OF FACTORS LEADING TO BREAKDOWNS IN THE VALIDITY.

AVAILABILITY: ENVIRONMENTAL MONITORING AND SUPPORT LABORATORY, U.S. EPA, OFFICE OF RESEARCH AND DEVELOPMENT, CINCINNATI, OH 45268

INSTITUTION NAME: U.S. ENVIRONMENTAL PROTECTION AGENCY.

IRIS ACCESSION NUMBER: EW004227

PUBLICATION DATE: MAR 79

TITLE: METHODS FOR CHEMICAL ANALYSIS OF WATER AND WASTES.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *CHEMICAL ANALYSIS; INDUSTRIAL WASTES; *INSTRUMENTATION; *LABORATORY PROCEDURES; LEGISLATION; *ENVIRONMENTAL PROTECTION AGENCY; *OPERATIONS (WATER); PUBLIC HEALTH; *REGULATIONS; WASTEWATER TREATMENT; *WATER QUALITY; WATER TREATMENT; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 504P. REFERENCE NO. EPA-600/4-79-020

ABSTRACT: THIS MANUAL CONTAINS THE CHEMICAL ANALYTICAL PROCEDURES USED BY THE ENVIRONMENTAL PROTECTION AGENCY LABORATORIES FOR THE EXAMINATION OF GROUND AND SURFACE WATERS, DOMESTIC AND INDUSTRIAL WASTE EFFLUENTS, AND TREATMENT PROCESS SAMPLES. PROCEDURES FOR THE MEASUREMENT OF PHYSICAL, INORGANIC, AND SELECTED ORGANIC CONSTITUENTS AND PARAMETERS ARE PROVIDED.

AVAILABILITY: ENVIRONMENTAL MONITORING AND SUPPORT LABORATORY, OFFICE OF RESEARCH AND DEVELOPMENT, U.S. EPA, CINCINNATI, OH 45268

INSTITUTION NAME: U.S. ENVIRONMENTAL PROTECTION AGENCY.

IRIS ACCESSION NUMBER: EW004229
PUBLICATION DATE: AUG 79

TITLE: STATE PROGRAM DESCRIPTIONS OF WASTEWATER AND DRINKING WATER OPERATOR TRAINING.

PERSONAL AUTHOR: KOSID, LORRAINE C.

DESCRIPTOR: DIRECTORIES; *ENVIRONMENTAL TECHNICIANS; JOB SKILLS; *MANPOWER DEVELOPMENT; PROFESSIONAL DEVELOPMENT; *POST SECONDARY EDUCATION; *PROGRAM DESCRIPTIONS; *STATE PROGRAMS; *TRAINING; *WASTEWATER TREATMENT; *WATER TREATMENT; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 110P.

ABSTRACT: THIS DOCUMENT CONTAINS PROGRAM DESCRIPTIONS OF WASTEWATER AND DRINKING WATER OPERATOR TRAINING OPPORTUNITIES WITHIN THE SIX STATE AREA OF ILLINOIS, INDIANA, MICHIGAN, MINNESOTA, OHIO, AND WISCONSIN. THE PROGRAMS DISCUSS BOTH PRE-SERVICE AND IN-SERVICE OPPORTUNITIES INCLUDING: PLANT OPERATION; LABORATORY, INSTRUCTOR, AND MANAGEMENT TRAINING; AND INDIVIDUALIZED COURSES.

AVAILABILITY: N. BAILEY LORBERBAUM, REGIONAL MANPOWER SPECIALIST, U.S. EPA, PERSONNEL AND MANPOWER DEVELOPMENTAL BRANCH, 230 S. DEARBORN ST., CHICAGO, IL 60604 (FREE)

IRIS ACCESSION NUMBER: EW004230

PUBLICATION DATE: MAR 79

TITLE: INDIVIDUAL ONSITE WASTEWATER SYSTEMS. PROCEEDINGS OF THE FIFTH NATIONAL CONFERENCE 1978. WASTEWATER TREATMENT ALTERNATIVES FOR RURAL AND SEMIRURAL AREAS.

PERSONAL AUTHOR: MCCLELLAND, NINA I., ED.

DESCRIPTOR: *CONFERENCES; *FACILITIES; GOVERNMENT ROLE; *ONSITE SYSTEMS; PUBLIC HEALTH; *RURAL ENVIRONMENT; RESEARCH; RECYCLING; *SANITATION; *WASTEWATER TREATMENT; WATER POLLUTION CONTROL; WASTE DISPOSAL

DESCRIPTIVE NOTE: 303P.

ABSTRACT: THIS BOOK CONTAINS THE PAPERS PRESENTED AT THE FIFTH NATIONAL CONFERENCE OF THE NATIONAL SANITATION FOUNDATION IN OCTOBER 1978. THE PROGRAM FOCUSED ON WASTEWATER ALTERNATIVES FOR RURAL AREAS IN RELATION TO FEDERAL AND STATE CODES AND APPROVAL POLICIES, FUNDING MECHANISMS, ACTUAL FIELD EXPERIENCES, AND THE STATUS OF EFFORTS TO DEVELOP MANUALS OF PRACTICE FOR ONSITE SYSTEMS.

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, INC., P.O. BOX 1425, ANN ARBOR, MI 48106 ($24.50)

IRIS ACCESSION NUMBER: EW004231
PUBLICATION DATE: 75

TITLE: SIMPLIFIED PROCEDURES FOR WATER EXAMINATION. LABORATORY MANUAL.

DESCRIPTOR: *CHEMICAL ANALYSIS; EQUIPMENT; *INSTRUCTIONAL MATERIALS; INSTRUMENTATION; *JOB SKILLS; *LABORATORY PROCEDURES; *MONITORING; *OPERATIONS (WATER); PUBLIC HEALTH; WATER QUALITY; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 190P. ORDER NO 30012DE

ABSTRACT: THIS MANUAL IS A PRIMER OF COMMON METHODS FOR WATER QUALITY ANALYSIS. THE TECHNIQUES PRESENTED RELY ON INEXPENSIVE, READILY AVAILABLE APPARATUS AND UTILIZE SIMPLE, EASY TO FOLLOW PROCEDURES. BECAUSE OF THE SIMPLICITY OF THE METHODS THEY ARE LIMITED TO USE ON HIGH-QUALITY WATERS OF RELATIVELY KNOWN AND CONSTANT COMPOSITION.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION, 6660 W QUINCY AVE., DENVER, CO 80235 ($14.00 NONMEMBER; $7.00 MEMBER)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOCIATION.

IRIS ACCESSION NUMBER: EW004232

PUBLICATION DATE: 79

TITLE: GUIDELINES FOR THE SELECTION OF LABORATORY INSTRUMENTS.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; CHEMICAL ANALYSIS; *EQUIPMENT; *EVALUATION; GUIDELINES; *INSTRUMENTATION; *LABORATORY EQUIPMENT; *OPERATIONS (WATER); *SPECIFICATIONS; WATER POLLUTION CONTROL; *WATER TREATMENT.

DESCRIPTIVE NOTE: 90P. ORDER NO. 30015DE

ABSTRACT: THIS MANUAL DISCUSSES CONSIDERATIONS TO BE MADE WHEN SELECTING INSTRUMENTS FOR USE IN THE WATER TREATMENT PLANT LABORATORY. DESIRABLE AND/OR MINIMUM SPECIFICATIONS TO BE USED ARE PROVIDED FOR VARIOUS INSTRUMENTS INCLUDING: INCUBATORS; ION METERS; TURBIDIMETERS; MICROSCOPES; SPECTROPHOTOMETERS; AND CHROMATOGRAPHS.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION, 666 W QUINCY AVE., DENVER, CO 80235 (NONMEMBER $9.50; MEMBER $4.75)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOCIATION.

IRIS ACCESSION NUMBER: EW004233

PUBLICATION DATE: JUN 78

TITLE: SUMMARY OF PRESENTATIONS MADE AT FIFTH ANNUAL CONFERENCE OF CALIFORNIA ASSOCIATION OF RECLAMATION ENTITIES

OF WATER TOTAL WATER MANAGEMENT: 20-20 VISION (THE NEXT 40 YEARS).

DESCRIPTOR: AQUACULTURE; *CONFERENCE REPORTS; *ENVIRONMENT; *LAND USE; *CALIFORNIA; NATURAL RESOURCES; PUBLIC HEALTH; *RECYCLING; TECHNOLOGY; *WASTEWATER TREATMENT; *WATER RESOURCES; *WASTE DISPOSAL; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 87P.

ABSTRACT: THIS VOLUME CONTAINS SUMMARIES OF THE PRESENTATIONS MADE AT THE FIFTH ANNUAL CONFERENCE OF THE CALIFORNIA ASSOCIATION OF RECLAMATION ENTITIES OF WATER IN JUNE 1978. SUBJECT AREAS DISCUSSED INCLUDE: CURRENT DEVELOPMENTS AND PROBLEMS; AQUACULTURE; INSTITUTIONAL BARRIERS; CURRENT LEGISLATIVE PROGRAMS; AND POLITICAL AND PRACTICAL OBSTACLES OF WASTEWATER RECLAMATION.

AVAILABILITY: MR. LLOYD C FOWLER, PRESIDENT, CAREW, SANTA CLARA VALLEY WATER DISTRICT, 5750 ALMADEN EXPRESSWAY, SAN JOSE, CA 95118 ($5.00)

INSTITUTION NAME: CALIFORNIA ASSOCIATION OF RECLAMATION ENTITIES OF WATER (CAREW).

IRIS ACCESSION NUMBER: EW004234

PUBLICATION DATE: 78

TITLE: THE USE OF HIGH-PURITY OXYGEN IN THE ACTIVATED SLUDGE PROCESS. VOLUME I.

PERSONAL AUTHOR: MCWHIRTER, J. R.

DESCRIPTOR: *ACTIVATED SLUDGE; CHEMISTRY; COST EFFECTIVENESS; *DESIGN; ENGINEERING; EQUIPMENT; *OPERATIONS (WASTEWATER); OXYGEN; SAFETY; SLUDGE; *TECHNOLOGY; WATER POLLUTION CONTROL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 276P.

ABSTRACT: THIS BOOK IS PART OF A TWO-VOLUME SERIES WHICH SERVES AS A REFERENCE FOR OXYGEN-ACTIVATED SLUDGE TECHNOLOGY. THE SUBJECT MATTER DISCUSSES THE ADVANTAGES OF OXYGEN USE AND PRESENTS THE BASIC CONCEPTS OF ACTIVATED SLUDGE SYSTEM PROCESS DESIGN. THE INFORMATION IS GEARED FOR PRACTICING DESIGN ENGINEERS AND WASTEWATER TREATMENT EXPERTS. REFERENCES ARE INCLUDED AT THE END OF EACH CHAPTER.

AVAILABILITY: CRC PRESS, INC., DIVISION OF CHEMICAL RUBBER CO., 2255 PALM BEACH LAKES BLVD., WEST PALM BEACH, FL 33409 ($52.95)

IRIS ACCESSION NUMBER: EW004235

PUBLICATION DATE: 78

TITLE: THE USE OF HIGH-PURITY OXYGEN IN THE ACTIVATED SLUDGE PROCESS. VOLUME II.

PERSONAL AUTHOR: MCWHIRTER, J.R.

DESCRIPTOR: *ACTIVATED SLUDGE; CHEMISTRY; COST EFFECTIVENESS; DESIGN; *ENGINEERING; EQUIPMENT; *OPERATIONS (WASTEWATER); *OXYGEN; SAFETY; *SLUDGE; *TECHNOLOGY; WATER POLLUTION CONTROL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 274P.

ABSTRACT: THIS BOOK IS PART OF A TWO-VOLUME SERIES WHICH SERVES AS A REFERENCE FOR OXYGEN-ACTIVATED SLUDGE TECHNOLOGY. THE SUBJECT MATTER DISCUSSES THE ADVANTAGES OF OXYGEN USE AND PRESENTS THE BASIC CONCEPTS OF ACTIVATED SLUDGE SYSTEM PROCESS DESIGN. THE INFORMATION IS GEARED FOR PRACTICING DESIGN ENGINEERS AND WASTEWATER TREATMENT EXPERTS. REFERENCES ARE INCLUDED AT THE END OF EACH CHAPTER.

AVAILABILITY: CRC PRESS, INC., DIVISION OF CHEMICAL RUBBER CO., 2255 PALM BEACH LAKES BLVD., WEST PALM BEACH, FL 33409 ($53.95)

IRIS ACCESSION NUMBER: EW004236

TITLE: RIGHT LUBRICANT/LUBRICATION AVOIDS DRAGGING PERFORMANCE.

PERSONAL AUTHOR: KAHLKE, JAMES H.

DESCRIPTOR: EQUIPMENT UTILIZATION; *MAINTENANCE; *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT; *LUBRICANTS; WATER POLLUTION CONTROL; PUMPS; *GUIDELINES; *MECHANICAL EQUIPMENT

ABSTRACT: CONSIDERED ARE RECOMMENDED GUIDELINES FOR LUBRICATING SPECIFIC WASTEWATER TREATMENT EQUIPMENT SUCH AS ELECTRIC MOTORS, GEAR REDUCERS, PUMPS, AND CONVEYORS. A GLOSSARY OF RELATED TERMS IS PROVIDED.

AVAILABILITY: WATER AND SEWAGE WORKS; V126 N10, OCT 79

IRIS ACCESSION NUMBER: EW004237

PUBLICATION DATE: OCT 79

TITLE: LAB TIP: EXASPERATED BY COSTS? CUT ASPIRATION!

PERSONAL AUTHOR: MOOSHEGIAN, ROBERT E.; BENGSTON, HARLAN H.

DESCRIPTOR: *LABORATORY TECHNIQUES; WATER POLLUTION CONTROL; *COST EFFECTIVENESS; *EQUIPMENT UTILIZATION; *FILTRATION

DESCRIPTIVE NOTE: 33,42P.

ABSTRACT: DISCUSSED ARE THE EFFECTIVENESS AND COSTS OF THREE METHODS FOR DRAWING A VACUUM FOR LABORATORY FILTRATION. EMPHASIS IS ON SAVING ENERGY, WATER, AND DOLLARS.

AVAILABILITY: WATER AND SEWAGE WORKS; V126 N10

IRIS ACCESSION NUMBER: EW004238
PUBLICATION DATE: OCT 79

TITLE: GOT THE RIGHT SLANT FOR LAND TREATMENT?

PERSONAL AUTHOR: THOMAS, RICHARD E.; REED, SHERWOOD C.

DESCRIPTOR: *WASTE DISPOSAL; *WASTEWATER TREATMENT; *LAND USE; *OPERATIONS (WASTEWATER); *LAND APPLICATION; WATER POLLUTION CONTROL; *TECHNOLOGY; LEGISLATION

DESCRIPTIVE NOTE: 34,66P.

ABSTRACT: COMPARISONS OF DESIGN FEATURES FOR LAND TREATMENT PROCESSES OF WASTEWATER ARE OUTLINED IN THIS ARTICLE. PROCESSES DISCUSSED INCLUDE: SLOW RATE; RAPID INFILTRATION; OVERLAND FLOW; AND SUBSURFACE PIPING.

AVAILABILITY: WATER AND SEWAGE TREATMENT; V126 N10

IRIS ACCESSION NUMBER: EW004239

PUBLICATION DATE: OCT 79

TITLE: O & M SEMINAR. BLAMES FIXED FOR POOR OPERATIONS.

DESCRIPTOR: *WASTEWATER TREATMENT; WATER POLLUTION CONTROL; *OPERATIONS (WASTEWATER); EQUIPMENT UTILIZATION; *MAINTENANCE; ENVIRONMENTAL PROTECTION AGENCY; ENVIRONMENTAL TECHNICIANS; JOB SKILLS; *TRAINING; GRANTS; *MANAGEMENT

DESCRIPTIVE NOTE: 40-41P.

ABSTRACT: HIGHLIGHTS OF AN OPERATIONS AND MAINTENANCE SEMINAR FOR WASTEWATER TREATMENT FACILITIES ARE PRESENTED IN THIS ARTICLE. TOPICS INDENTIFIED INCLUDE; EQUIPMENT, TRAINING, MANAGEMENT, AND E.P.A. INVOLVEMENT.

AVAILABILITY: WATER AND SEWAGE WORKS; V126 N10

IRIS ACCESSION NUMBER: EW004240

PUBLICATION DATE: OCT 79

TITLE: FILTRATION WORKS OUT ASBESTOS FIBERS.

PERSONAL AUTHOR: LOGSDON, GARY S.; AND OTHERS

DESCRIPTOR: *WATER TREATMENT; WATER POLLUTION CONTROL; *OPERATIONS (WATER); *ASBESTOS; *TECHNOLOGY; *EQUIPMENT UTILIZATION; RESEARCH; *FILTRATION

DESCRIPTIVE NOTE: 44-46P.

ABSTRACT: REPORTED ARE THE RESULTS OF A STUDY CONDUCTED AT THE DULUTH, MINNESOTA, FILTRATION PLANT. DATA COLLECTION CENTERS ON THE REMOVAL OF ASBESTOS FIBERS FROM DRINKING WATER.

AVAILABILITY: WATER AND SEWAGE WORKS; V126 N10

IRIS ACCESSION NUMBER: EW004241

TITLE: MUNICIPAL SLUDGE MANAGEMENT FOR RECOVERING ENERGY-PART 2.

PERSONAL AUTHOR: JACOBS, ALLAN; AND OTHERS

DESCRIPTOR: *WASTE DISPOSAL; WASTEWATER TREATMENT; *OPERATIONS (WASTEWATER); *ENERGY; RESEARCH; *COST EFFECTIVENESS; AIR POLLUTION CONTROL; *TECHNOLOGY; ENGINEERING; *SLUDGE

ABSTRACT: THIS ARTICLE IS THE SECOND IN A SERIES DISCUSSING MUNICIPAL SLUDGE MANAGEMENT. FOCUS IS DIRECTED TO REDUCING SUPPLEMENTAL ENERGY FOR INCINERATING SLUDGE AND RECOVERING EXHAUST STEAMS FOR ADDITIONAL USES.

AVAILABILITY: WATER AND SEWAGE WORKS; V126 N10, OCT 79

IRIS ACCESSION NUMBER: EW004242

PUBLICATION DATE: OCT 79

TITLE: OXIDATION DITCH PLUS ALUM TAKE PHOSPHORUS AWAY.

PERSONAL AUTHOR: VIRARAGHAVEN, T.; AND OTHERS.

DESCRIPTOR: *WASTEWATER TREATMENT; *OPERATIONS (WASTEWATER); WATER POLLUTION CONTROL; *SLUDGE; *PHOSPHORUS; *RESEARCH; COST EFFECTIVENESS; DESIGN NEEDS; ALUM; FERRIC CHLORIDE

DESCRIPTIVE NOTE: 54-56P.

ABSTRACT: THIS ARTICLE REPORTS THE RESULTS OF AN ONTARIO STUDY DEMONSTRATING THE FEASIBILITY OF PHOSPHORUS REMOVAL IN AN OXIDATION-DITCH TREATMENT PLANT USING ALUM OR FERRIC CHLORIDE.

AVAILABILITY: WATER AND SEWAGE WORKS; V126 N10

IRIS ACCESSION NUMBER: EW004243

TITLE: AN OPERATOR'S PRIMER: THE REAL WORLD OF SMALL WATER TREATMENT PLANTS.

PERSONAL AUTHOR: KNACKE, HERMAN P.

DESCRIPTOR: WASTEWATER TREATMENT; *ENVIRONMENTAL TECHNICIANS; *JOB SKILLS; OPERATIONS (WASTEWATER); OCCUPATIONAL INFORMATION; EQUIPMENT

ABSTRACT: THIS ARTICLE PRESENTS AN ACCOUNT OF ONE MAN'S KNOWLEDGE ACQUIRED OVER SEVERAL YEARS OF MANAGING A

WATER/WASTEWATER TREATMENT FACILITY.

AVAILABILITY: WATER AND SEWAGE WORKS; V126 N10

IRIS ACCESSION NUMBER: EW004244

PUBLICATION DATE: OCT 79

TITLE: INCINERATION ASH SOLVES SOLIDS BUILDUP AT VANCOUVER.

PERSONAL AUTHOR: MASON, GEORGE J.; COLBY, THOMAS

DESCRIPTOR: *WASTE DISPOSAL; WASTEWATER TREATMENT; *OPERATIONS (WASTEWATER); *SLUDGE; DEWATERING; AIR POLLUTION CONTROL; *TECHNOLOGY; ENGINEERING; COST EFFECTIVENESS

DESCRIPTIVE NOTE: 60P.

ABSTRACT: THIS ARTICLE DISCUSSES STUDIES UNDERTAKEN AT VANCOUVER'S WESTSIDE PLANT TO PROMOTE BETTER DEWATERING AND IMPROVE SLUDGE FUEL VALUE. EFFLUENT VIOLATIONS AND OPERATION PROBLEMS LED TO THE SEARCH FOR BETTER AND MORE COST EFFECTIVE TREATMENT.

AVAILABILITY: WATER AND SEWAGE WORKS; V126 N10

IRIS ACCESSION NUMBER: EW004245

PUBLICATION DATE: OCT 79

TITLE: MAINTAINING PROGRAM MOMENTUM.

DESCRIPTOR: *AIR POLLUTION CONTROL; *AWARDS; ENVIRONMENT; EQUIPMENT; *EQUIPMENT MANUFACTURERS; PROFESSIONAL RECOGNITION; TECHNOLOGY; *TECHNOLOGICAL ADVANCEMENT; *WATER POLLUTION CONTROL; POLLUTION CONTROL TECHNOLOGY; *PRODUCTS ADVANCEMENT AWARDS PROGRAM

DESCRIPTIVE NOTE: 34P.

ABSTRACT: LISTED ARE THE WINNERS, BY CATEGORY, OF THE THIRD ANNUAL PRODUCTS ADVANCEMENT AWARDS FOR ACCOMPLISHMENTS IN POLLUTION CONTROL HARDWARE AND PROCESSES. GARY HART, UNITED STATES SENATOR FROM COLORADO, IS THE RECIPIENT OF THE 1979 ENVIRONMENTAL LEADERSHIP AWARD.

AVAILABILITY: POLLUTION ENGINEERING; V11 N10

IRIS ACCESSION NUMBER: EW004246

PUBLICATION DATE: OCT 79

TITLE: HOW TO BE EQUIVALENT BY BUBBLING.

PERSONAL AUTHOR: WILSON, ANDREW J.

DESCRIPTOR: *AIR POLLUTION CONTROL; ENVIRONMENTAL CRITERIA; FEDERAL GOVERNMENT; *INDUSTRY; MANAGEMENT; *MODELS; *BUBBLE CONCEPT; EMISSIONS CONTROL MODELS; *PRODUCTIVITY; *REGULATIONS; STANDARDS; TECHNOLOGY; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 41-42P.

ABSTRACT: THE BUBBLE CONCEPT, WHICH REQUIRES THAT EMISSIONS FROM A PROPOSED (ALTERNATIVE) SCHEME BE NO GREATER THAN WHAT WOULD BE EMMITTED IF THE OPERATOR COMPLIED WITH THE REASONABLE AVAILABLE CONTROL TECHNOLOGY (RACT) REGULATION, IS ILLUSTRATED BY THREE INDEPENDENT INDUSTRIAL SCENARIOS: ONE PRODUCTION LINE, TWO PRODUCTION LINES, AND THREE PRODUCTION LINES.

AVAILABILITY: POLLUTION ENGINEERING; V11 N10

IRIS ACCESSION NUMBER: EW004247

PUBLICATION DATE: OCT 79

TITLE: DISPOSING OF LIQUID/FLUID INDUSTRIAL WASTES.

PERSONAL AUTHOR: BONNER, JR., R.F.; PETURA, R. C.

DESCRIPTOR: AIR POLLUTION CONTROL; EQUIPMENT; *FACILITIES; FACILITY GUIDELINES; INDUSTRY; *METROPOLITAN AREAS; *TECHNOLOGY; *WASTES; *WASTE DISPOSAL; WATER POLLUTION CONTROL; *LIQUID WASTES; INDUSTRIAL WASTES; *THERMAL REDUCTION SYSTEM

DESCRIPTIVE NOTE: 46-48P.

ABSTRACT: DESCRIBED IS THE THERMAL REDUCTION SYSTEM UTILIZED BY THE METROLITAN DISTRICT OF GREATER CINCINNATI TO DISPOSE OF LIQUID FLUID INDUSTRIAL WASTES, CONVERTING THEM TO A SANITIZED RESIDUE, CARBON DIOXIDE, WATER VAPOR, AND EXCESS AIR. TOPICS DISCUSSED INCLUDE: WASTE CLASSIFICATION, MATERIALS HANDLING AND STORAGE, AND THE THERMAL REDUCTION UNIT.

AVAILABILITY: POLLUTION ENGINEERING; V11 N10

IRIS ACCESSION NUMBER: EW004248

PUBLICATION DATE: OCT 79

TITLE: CLEAN THAT SEWER SYSTEM WITH BUGS!

DESCRIPTOR: CASE STUDIES; CHEMICAL ANALYSIS; *ENVIRONMENTAL RESEARCH; *MICROBIOLOGY; SANITATION; *SEWAGE TREATMENT; *BACTERIA; *BIOAUGMENTATION; WASTE DISPOSAL; WASTES; *WASTE WATER TREATMENT; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 119BP.

ABSTRACT: THE USE OF SPECIAL PURPOSE SEWAGE BACTERIA, DEVELOPED TO HANDLE POLLUTION PROBLEMS INEXPENSIVELY, IS DESCRIBED. CASE STUDIES FROM BOULDER CITY, NEVADA, AND HEMPHILL, TEXAS, ARE PRESENTED. BENEFITS OF THIS TECHNIQUE, INCLUDING IMPROVED SOLIDS DIGESTION, BETTER SETTLEABILITY, AND ENHANCED BIOCHEMICAL OXYGEN DEMAND AND SUSPENDED SOLIDS

REMOVAL, ARE DETAILED.
AVAILABILITY: ENVIRONMENTAL SCIENCE AND TECHNOLOGY; V13, N10

IRIS ACCESSION NUMBER: EW004249

PUBLICATION DATE: OCT 79

TITLE: INDUSTRIAL EFFLUENT GUIDELINES: ROUND 2.

PERSONAL AUTHOR: GAINES, SANFORD E.

DESCRIPTOR: ENVIRONMENTAL CRITERIA; *FEDERAL GOVERNMENT; FEDERAL LEGISLATION; *INDUSTRY; *LEGISLATION; *EFFLUENT GUIDELINES; TOXIC MATERIALS; REGULATIONS; *STANDARDS; WASTEWATER TREATMENT; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 1201P.

ABSTRACT: DISCUSSED ARE THE NEW SERIES OF PROPOSED EFFLUENT GUIDELINES BEING PREPARED BY THE FEDERAL ENVIRONMENTAL PROTECTION AGENCY FOR INDUSTRY. CERTAIN ELEMENTS OF THESE GUIDELINES SUCH AS THE USE OF "INDICATOR" POLLUTANTS, ARE DETAILED. THE NEED FOR LIMITATIONS ON TOXIC CHEMICALS IS PRESENTED.

AVAILABILITY: ENVIRONMENTAL SCIENCE & TECHNOLOGY; V13 N10

IRIS ACCESSION NUMBER: EW004250

PUBLICATION DATE: 78

TITLE: MARINE OUTFALL SYSTEMS: PLANNING, DESIGN, AND CONSTRUCTION.

PERSONAL AUTHOR: GRACE, ROBERT A.

DESCRIPTOR: CONSTRUCTION; DESIGN; ENVIRONMENTAL INFLUENCES; *FACILITIES; *HYDRAULICS; *MARINE BIOLOGY; *OUTFALL SYSTEMS; *OCEANOLOGY; PUBLIC HEALTH; *TECHNOLOGY; 208 PLANNING; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 599P.

ABSTRACT: THIS BOOK DISCUSSES IN DETAIL THE CONSIDERATIONS TO BE MADE BY ENGINEERS IN THE PLANNING, DESIGN, AND CONSTRUCTION OF MARINE OUTFALL SYSTEMS FOR THE DISPOSAL OF WASTEWATER TREATMENT EFFLUENTS. TOPIC AREAS DISCUSSED INCLUDE: THE MARINE ENVIRONMENT; WASTEWATER CHARACTERISTICS AND TREATMENT; PHYSICAL OCEANOGRAPHIC DATA; THE HYDRAULICS OF OUTFALLS, DIFFUSERS, AND EFFLUENTS; AND CONSTRUCTION AND POST-CONSTRUCTION ACTIVITIES OF OUTFALLS. EACH CHAPTER CONTAINS AN EXTENSIVE LIST OF REFERENCES.

AVAILABILITY: PRENTICE-HALL, INC., ORDER DEPT., PO BOX 21X, ENGLEWOOD CLIFFS, NJ 07632 ($35.00)

IRIS ACCESSION NUMBER: EW004251
TITLE: PRINCIPLES AND PROCEDURES FOR WATER AND WASTEWATER COLOR MEASUREMENT.

DESCRIPTOR: AUDIOVISUAL AIDS; *CHEMICAL ANALYSIS; *COLOR MEASUREMENT; FILMSTRIPS; *INSTRUCTIONAL MATERIALS; INSTRUMENTATION; *LABORATORY PROCEDURES; LABORATORY TECHNIQUES; *MEASUREMENT; OPERATIONS (WATER); OPERATIONS (WASTEWATER); *PAPER INDUSTRY; POST SECONDARY EDUCATION; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: AUDIO-VISUAL TRAINING PROGRAM AV016-020, FILMSTRIP AND CASSETTE

ABSTRACT: THIS TRAINING PROGRAM IS DESIGNED TO IMPROVE THE CONDUCT OF COLOR MEASUREMENT OF MILLWATERS AND WASTEWATERS. THE PROGRAM IS DIVIDED INTO FIVE SEGMENTS USING FULLY AUTOMATED COLOR FILMSTRIPS, SYNCHRONIZED WITH A CASSETTE TAPE. THE SEGMENTS INCLUDE: ELECTROMAGNETIC AND VISUAL ATTRIBUTES OF LIGHT AND COLOR; THE PRINCIPLES OF SPECTROSCOPY; PULP & PAPER MILL EFFLUENT COLOR; FUNDAMENTAL LABORATORY PROCEDURES FOR COLOR MEASUREMENT-SAMPLE AND INSTRUMENTATION PREPARATION; AND FUNDAMENTAL LABORATORY PROCEDURES FOR COLOR MEASUREMENT-ABSORBANCE MEASUREMENT. PURCHASE INFORMATION AND PRESENTATION REQUIREMENTS ARE DETAILED.

AVAILABILITY: NATIONAL COUNCIL OF THE PAPER INDUSTRY FOR AIR AND STREAM IMPROVEMENT, INC., 260 MADISON AVENUE, NEW YORK, NY 10016 PRICE: $60.00

INSTITUTION NAME: NATIONAL COUNCIL OF THE PAPER INDUSTRY FOR AIR AND STREAM IMPROVEMENT, INC.

IRIS ACCESSION NUMBER: EW004252

TITLE: ANALYTICAL PROCEDURES FOR BACTERIOLOGICAL ANALYSIS OF WATER AND WASTEWATER.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; AUDIOVISUAL AIDS; *BACTERIA; CHEMICAL ANALYSIS; FILMSTRIPS; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; LABORATORY TECHNIQUES; *MICROBIOLOGY; OPERATIONS (WASTEWATER); *PAPER INDUSTRY; WASTEWATER; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: AUDIO-VISUAL TRAINING PROGRAM-AV008-015; FILMSTRIP AND CASSETTE

ABSTRACT: THIS TRAINING PROGRAM IS DESIGNED TO IMPROVE THE CONDUCT OF BACTERIOLOGICAL TESTING OF MILLWATERS AND WASTEWATERS. THE PROGRAM IS DIVIDED INTO EIGHT SEGMENTS USING FULLY AUTOMATED COLOR FILMSTRIPS SYNCHRONIZED WITH A CASSETTE TAPE. THE SEGMENTS INCLUDE: INTRODUCTION TO BACTERIOLOGICAL ANALYSIS; SAMPLE COLLECTION AND HANDLING; FUNDAMENTAL LABORATORY PROCEDURES; THE SERIAL DILUTION TECHNIQUE; THE MF TEST FOR TOTAL COLIFORM; THE MF TEST FOR FECAL COLIFORM; ASEPTIC INOCULATION TECHNIQUES; AND DIFFERENTIATION OF THE COLIFORM GROUP. PURCHASE INFORMATION AND PRESENTATION REQUIREMENTS ARE DETAILED.

AVAILABILITY: NATIONAL COUNCIL OF THE PAPER INDUSTRY FOR

AIR AND STREAM IMPROVEMENT, INC., 260 MADISON AVENUE, NEW YORK, NY 10016 PRICE: $125.00

INSTITUTION NAME: NATIONAL COUNCIL OF THE PAPER INDUSTRY FOR AIR AND STREAM IMPROVEMENT, INC..

IRIS ACCESSION NUMBER: EW004253

PUBLICATION DATE: 71

TITLE: BIOLOGICAL EFFECTS IN THE HYDROLOGICAL CYCLE: PROCEEDINGS OF THE THIRD INTERNATIONAL SEMINAR FOR HYDROLOGY PROFESSORS.

DESCRIPTOR: BIOLOGY; CONFERENCE PROCEEDINGS; ENVIRONMENTAL INFLUENCES; *HYDROLOGY; LAND USE; MEASUREMENT TECHNIQUES; RECYCLING; *RESEARCH; *SOIL SCIENCE; *WATER POLLUTION CONTROL; WATER SUPPLY; WATER RESOURCES; *WATERSHEDS

DESCRIPTIVE NOTE: 391P.

ABSTRACT: THIS DOCUMENT CONTAINS THE PAPERS PRESENTED AT THE THIRD INTERNATIONAL SEMINAR FOR HYDROLOGY PROFESSORS. THE PROGRAM EMPHASIZED THE BIOLOGICAL EFFECT IN THE HYDROLOGIC CYCLE. TOPIC AREAS DISCUSSED INCLUDE: THE ECOLOGICAL SYSTEM; ALTERATION BY MAN'S ACTIVITIES; EVAPOTRANSPIRATION; INFILTRATION, INTERFLOW, AND OVERLAND FLOW; MEASUREMENT TECHNIQUES; AND MANAGEMENT OF THE BIOLOGICAL COMPONENT FOR SELECT WATERSHED RESPONSE. EACH PRESENTATION CONTAINS A LIST OF REFERENCES.

AVAILABILITY: DEPARTMENT OF AGRICULTURAL ENGINEERING, AGRICULTURAL EXPERIMENT STATION, PURDUE UNIVERSITY, WEST LAFAYETTE, INDIANA 47907.

INSTITUTION NAME: NATIONAL SCIENCE FOUNDATION.

IRIS ACCESSION NUMBER: EW004254

PUBLICATION DATE: 78

TITLE: PHYSICAL CONSEQUENCES OF LARGE ORGANIC DEBRIS IN PACIFIC NORTHWEST STREAMS

PERSONAL AUTHOR: SWANSON, FREDERICK J. AND LIENKAEMPER, GEORGE W.

DESCRIPTOR: BIBLIOGRAPHIES; *CASE STUDIES; *CLEARCUTTING; DEBRIS; ECOLOGY; FISH; *FORESTRY; *MANAGEMENT; *NONPOINT SOURCES; *ORGANIC DEBRIS; *PACIFIC NORTHWEST; SEDIMENTATION; *STREAMS; *WATER POLLUTION CONTROL; *WATER QUALITY; *WATER RESOURCES

DESCRIPTIVE NOTE: 12P. USDA FOREST SERVICE GENERAL TECHNICAL REPORT PNW-69.

ABSTRACT: THIS REPORT, PRESENTED AT THE WORKSHOP ON LOGGING DEBRIS IN STREAMS AT OREGON STATE UNIVERSITY, DISCUSSES THE POSSIBLE ENVIRONMENTAL IMPACTS OF INTENTIONAL OR INADVERTENT DEBRIS MANAGEMENT. FOLLOWING A REVIEW OF THE PHYSICAL CHARACTERISTIC, HISTORY, AND EFFECTS OF NATURAL DEBRIS IN STREAMS OF VARIOUS SIZES, THE CHARACTERISTICS OF POTENTIAL MANAGEMENT IMPACTS ON THE MOVEMENT OF STREAM DEBRIS ARE EXAMINED IN A CASE STUDY OF THE CEDAR CREEK DRAINAGE BASIN IN THE COAST RANGE. A SUMMARY DETAILING FUTURE OPTIONS FOR GOOD STREAM MANAGEMENT AND A LISTING OF THE LITERATURE CITED CONCLUDES THIS REPORT.

AVAILABILITY: PACIFIC NORTHWEST FOREST AND RANGE EXPERIMENT STATION, PO BOX 3141, PORTLAND, OREGON 97208

IRIS ACCESSION NUMBER: EW004255

PUBLICATION DATE: 76

TITLE: HYDROLOGY OF SMALL FOREST STREAMS IN WESTERN OREGON.

PERSONAL AUTHOR: HARR, R. DENNIS.

DESCRIPTOR: CLEARCUTTING; *ENVIRONMENT; *EROSION; *FORESTRY; *HYDROLOGY; *MANAGEMENT; *NONPOINT SOURCES; *OREGON; *RUNOFF; *STREAMS; *WATER POLLUTION CONTROL; *WATER QUALITY; *WATER RESOURCES

DESCRIPTIVE NOTE: 15P. USDA FOREST SERVICES GENERAL TECHNICAL REPORT PNW-55.

ABSTRACT: THIS REPORT, PRESENTED AT THE WORKSHOP ON LOGGING DEBRIS IN STREAMS AT OREGON STATE UNIVERISTY, DISCUSSES VARIOUS ASPECTS OF THE HYDROLOGY OF SMALL FOREST STREAMS IN WESTERN OREGON. FOLLOWING AN INTRODUCTION WHICH DEFINES A SMALL STREAM AND DESCRIBES THE REGION, THE FOLLOWING TOPICS ARE DISCUSSED; (1) HYDROLOGIC PROCESSES, INCLUDING FOREST HYDROLOGIC CYCLE, COMPONENTS OF STREAMFLOW, TRANSLATORY FLOW, VARIABLE SOURCE AREA, PEAK FLOW AND MINIMUM FLOWS; (2) CHANNEL HYDRAULICS; (3) SEASONABILITY OF RUNOFF PROCESSES, AND (4) THE EFFECTS OF MANAGEMENT ACTIVITIES INCLUDING ANNUAL STREAMFLOW, MINIMUM FLOW, PEAK FLOWS AND CHANNEL HYDRAULICS. A SUMMARY AND LISTING OF THE LITERATURE CITED CONCLUDES THIS REPORT.

AVAILABILITY: PACIFIC NORTHWEST FOREST AND RANGE EXPERIMENT STATION, PO BOX 3141, PORTLAND, OREGON 97208

IRIS ACCESSION NUMBER: EW004256

PUBLICATION DATE: 76

TITLE: HISTORY, PHYSICAL EFFECTS, AND MANAGEMENT IMPLICATIONS OF LARGE ORGANIC DEBRIS IN WESTERN OREGON STREAMS.

PERSONAL AUTHOR: SWANSON, FREDERICK J.; AND OTHERS.

DESCRIPTOR: *CASE STUDIES; *CLEARCUTTING; *DEBRIS; ECOLOGY; EROSION; *FORESTRY; HISTORY; *MANAGEMENT; *NONPOINT SOURCES; *OREGON; *ORGANIC DEBRIS; *STREAMS; WATER POLLUTION CONTROL; WATER QUALITY; *WATER RESOURCES

DESCRIPTIVE NOTE: 15P. USDA FOREST SERVICE GENERAL

TECHNICAL REPORT PNW-56.

ABSTRACT: THIS REPORT, PRESENTED AT THE WORKSHOP ON LOGGING DEBRIS AT OREGON STATE UNIVERSITY, FOCUSES ON THE THEME THAT STREAMS AND THEIR BIOTA DEVELOPED THROUGH A LONG HISTORY OF HIGH CONCENTRATIONS OF DEBRIS AND THAT PERHAPS A CLOSER LOOK AT THE HISTORY OF NATURAL DEBRIS IN NATURAL ENVIRONMENTS WILL HELP IN MANAGING THESE STREAMS IN THE FUTURE. THE RESULTS OF THREE CASE STUDIES THAT STUDIED LARGE ORGANIC DEBRIS IN BOTH UNDISTURBED AND MAN-INFLUENCED STREAMS IN WESTERN OREGON ARE PRESENTED. GUIDELINES FOR THE MANAGEMENT OF LOGGING OPERATIONS THAT WILL HELP MINIMIZE THE IMPACTS OF BOTH LONG AND SHORT-TERM ALTERATIONS OF THE STREAM ENVIRONMENT ARE DETAILED. A LISTING OF THE LITERATURE CITED CONCLUDES THIS REPORT.

AVAILABILITY: PACIFIC NORTHWEST FOREST AND RANGE EXPERIMENT STATION, PO BOX 3141, PORTLAND, OREGON 97208

IRIS ACCESSION NUMBER: EW004257

PUBLICATION DATE: 76

TITLE: FOREST PRACTICES AND STREAMFLOW IN WESTERN OREGON.

PERSONAL AUTHOR: HARR, R. DENNIS.

DESCRIPTOR: BURNING; CLEARCUTTING; *ENVIRONMENTAL RESEARCH; *FORESTRY; *HYDROLOGY; *LOGGING; *MANAGEMENT; *OREGON; *ROADS; *STREAMS; WATER QUALITY; *WATER RESOURCES; *WATER SHEDS

DESCRIPTIVE NOTE: 18P. USDA FOREST SERVICE GENERAL TECHNICAL REPORT-PNW-49.

ABSTRACT: THIS REPORT, PRESENTED AT THE SYMPOSIUM ON WATERSHED MANAGEMENT AT LOGAN, UTAH, SUMMARIZES THE RESULTS OF FOUR, WATERSHED STUDIES ON THE POSSIBLE EFFECTS OF ROADBUILDING, TIMBER HARVESTING, AND BURNING ON STREAM FLOW AND DISCUSSES APPLICATION OF THE RESULTS TO LAND MANAGEMENT PROBLEMS. THE FOUR STUDY AREAS DESCRIBED ARE CONSIDERED REPRESENTATIVE OF MUCH OF WESTERN OREGON. CHANGES IN STREAMFLOW, STORM PEAK FLOWS, AND STROMFLOW VOLUME WHICH HAVE BEEN NOTED AFTER COMMON TIMBER HARVESTING ACTIVITIES ARE REPORTED. THE IDENTIFIED CHANGES ARE PUT IN PERSPECTIVE AND APPLIED TO FOREST MANAGEMENT IN WESTERN OREGON. A LISTING OF THE LITERATURE CITED CONCLUDES THIS REPORT.

AVAILABILITY: PACIFIC NORTHWEST FOREST AND RANGE EXPERIMENT STATION, PO BOX 3141, PORTLAND, OREGON 97208

IRIS ACCESSION NUMBER: EW004258

PUBLICATION DATE: 74

TITLE: SLOPE STABILITY PROBLEMS ASSOCIATED WITH TIMBER HARVESTING IN MOUNTAINOUS REGIONS OF THE WESTERN UNITED STATES.

PERSONAL AUTHOR: SWANSTON, D. N.

DESCRIPTOR: CLEARCUTTING; *EROSION; *FORESTRY; *LOGGING; *MASS MOVEMENT; *MANAGEMENT; *MOUNTAINS; *SOILS; UNITED STATES

DESCRIPTIVE NOTE: 14P. USDA FOREST SERVICE GENERAL TECHNICAL REPORT PNW-21.

ABSTRACT: THIS REPORT DISCUSSES SLOPE FAILURE IN LOGGED AREAS THAT CAUSE EXTENSIVE DAMAGE TO STRUCTURES & ROADS AND EFFECTIVELY REMOVES PORTIONS OF THE WATERSHED FROM IMMEDIATE REFORESTATION. BASED ON A LITERATURE REVIEW AND A SUMMARY OF CURRENT RESEARCH, NATURAL SOIL MASS MOVEMENTS ON FORESTED SLOPES ARE CLASSIFIED INTO TWO MAJOR GROUPS: (1) DEBRIS SLIDES, DEBRIS AVALANCHES, DEBRIS FLOWS, AND DEBRIS TORRENTS, AND (2) CREEP, SLUMP, AND EARTH FLOWS. THE ROLE FOREST OPERATIONS PLAY IN THE INTIATION AND ACCELERATION OF SOIL MASS MOVEMENTS ON STEEP SLOPES IS INVESTIGATED.

AVAILABILITY: PACIFIC NORTHWEST FOREST AND RANGE EXPERIMENT STATION, PO BOX 3141, PORTLAND, OREGON 97208

IRIS ACCESSION NUMBER: EW004259

PUBLICATION DATE: 74

TITLE: THE FOREST ECOSYSTEM OF SOUTHEAST ALASKA - 8. WATER.

PERSONAL AUTHOR: SCHMIEGE, DONALD C.; AND OTHERS.

DESCRIPTOR: *ALASKA; CHEMISTRY; *ECOLOGY; *ENVIRONMENTAL RESEARCH; FORESTRY; *MANAGEMENT; NATURAL RESOURCES; *RESEARCH NEEDS; SEDIMENTATION; STREAMS; *WATER QUAILTY; *WATER RESOURCES; *WATER SHED MANAGEMENT

DESCRIPTIVE NOTE: 26P. USDA FOREST SERVICE GENERAL TECHNICAL REPORT PNW-28.

ABSTRACT: THIS REPORT, THE EIGHTH IN A SERIES OF PUBLICATIONS SUMMARIZING KNOWLEDGE ABOUT THE FOREST RESOURCES IN SOUTHEAST ALASKA, COMBINES AND PRESENTS PUBLISHED AND UNPUBLISHED DATA ON WATER REGIMEN, TEMPERATURE, SEDIMENTATION, AND CHEMISTRY. THIS INFORMATION WILL SERVE AS A BASIS FOR ESTIMATING THE CONSEQUENCES OF VARIOUS MANAGEMENT ALTERNATIVES, SO THAT HIGH QUALITY WATER WILL BE ABUNDANT AND AVAILABLE. A SECTION ON NEEDED RESEARCH IS INCLUDED. A LISTING OF THE LITERATURE CITED CONCLUDES THIS REPORT.

AVAILABILITY: PACIFIC NORTHWEST FOREST AND RANGE EXPERIMENT STATION, PO BOX 3141, PORTLAND, OREGON 97208

IRIS ACCESSION NUMBER: EW004260

PUBLICATION DATE: SEP 74

TITLE: A STUDY OF THE PROBLEM OF ASBESTOS IN WATER. PART 2.

DESCRIPTOR: *ASBESTOS; *CARCINOGENS; CHEMICAL ANALYSIS;

*INTERDISCIPLINARY APPROACH; *HAZARDOUS MATERIALS; *PIPES; *PUBLIC HEALTH; *POLLUTION; *SCIENTIFIC RESEARCH; *WATER SUPPLY; *WATER RESOURCES; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 22P.

ABSTRACT: THIS DOCUMENT REPORTS THE FINDINGS OF AN INTERDISCIPLINARY SELECT COMMITTEE FORMED BY THE AMERICAN WATER WORKS ASSOCIATION (AWWA) RESEARCH FOUNDATION TO STUDY THE PROBLEM OF ASBESTOS IN WATER, SPECIFICALLY AS RELATED TO THE USE OF ASBESTOS-CEMENT PIPE. THE OBJECTIVES OF THE STUDY WERE TO: (1) ASSEMBLE ALL PERTINENT LITERATURE ON THE BIOLOGICAL EFFECTS OF ASBESTOS; (2) HAVE A COMMITTEE EXAMINE THE TECHNICAL LITERATURE AND ON THE BASIS OF PRESENT KNOWLEDGE ISSUE A REPORT ANSWERING THE QUESTION: DOES ASBESTOS IN WATER CONSTITUTE A HAZARD TO HEALTH BY CAUSING A GREATER THAN NORMAL OCCURRENCE OF GASTROINTESTINAL CANCER OR MALIGNANT MESOTHELIOMA OF THE PERITONEUM OR PLEURA?; AND (3) RECOMMEND THE RESEARCH REQUIRED TO RESOLVE THE MATTER. INCLUDED IN THE APPENDIXES ARE: SUMMARIES OF IMPORTANT STUDIES CONDUCTED IN OCCUPATIONAL SETTINGS, DIFFICULTIES FACED IN THE DETERMINATION OF ASBESTOS FIBER CONCENTRATION, TWO CASE STUDIES OF MUNICIPAL WATER SYSTEMS, SAMPLING PROCEDURES, DATA SUMMARIES, AND PROPOSED AREAS OF RESEARCH.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION, 6666 WEST QUINCY AVE., DENVER, CO 80235 ($1.00)

INSTITUTION NAME: THE AMERICAN WATER WORKS ASSOCIATION.

IRIS ACCESSION NUMBER: EW004261

PUBLICATION DATE: 79

TITLE: EFFECTS OF SUSPENDED SOLIDS AND SEDIMENT ON REPRODUCTION AND EARLY LIFE OF WARMWATER FISHES: A REVIEW.

PERSONAL AUTHOR: MUNCY, ROBERT J.; AND OTHERS.

DESCRIPTOR: BIOLOGICAL SCIENCES; *ENVIRONMENTAL INFLUENCES; EMBRYOLOGY; *FISH; NATURAL RESOURCES; POLLUTION; *RESEARCH; *REPRODUCTION (BIOLOGY); *SEDIMENT; *TURBIDITY; *WATER POLLUTION CONTROL; *WATER QUALITY

DESCRIPTIVE NOTE: 101P. EPA-600/3-79-042.

ABSTRACT: THIS REPORT PRESENTS A REVIEW OF LITERATURE AND AN EVALVATION OF WHAT IS KNOWN ABOUT THE EFFECTS OF SEDIMENT AND SUSPENDED SOLIDS ON THE REPRODUCTION AND EARLY LIFE OF WARMWATER FISH.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW004262

PUBLICATION DATE: 6010-8 0

TITLE: MATHEMATICAL MODELING APPLIED TO LEHIGH RIVER WATER QUALITY.

DESCRIPTOR: *AQUATIC ENVIRONMENT; *CHEMICAL ANALYSIS; *ENVIRONMENT; ENGINEERING; *MATHEMATICAL MODELS; *PENNSYLVANIA; PUBLIC HEALTH; *RESEARCH; *WATER QUALITY; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 242P. MARGINAL COPY- MAY NOT COPY WELL, GRANT NO. GY-11518.

ABSTRACT: THIS DOCUMENT CONTAINS THE INFORMATION GATHERED DURING A WATER QUALITY INVESTIGATION STUDY OF THE LEHIGH RIVER, PENNSYLVANIA. PRESENTED ARE THE FIELD, LABORATORY, AND QUANTITATIVE ANALYSES PERFORMED ON THE VARIOUS WATER QUALITY PARAMETERS AND THE APPLICATION OF A STEADY STATE MATHEMATICAL MODEL UTILIZING THE ACCUMULATED DATA.

AVAILABILITY: EPA INFORMATION DISSEMINATION PROJECT, 1200 CHAMBERS RD., COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW004263

PUBLICATION DATE: CT 79

TITLE: REALLY IMPROVE OPERATION AND MAINTENANCE.

PERSONAL AUTHOR: BENJES JR, H. H. & OWEN, W. F.

DESCRIPTOR: *WASTEWATER TREATMENT; *OPERATIONS (WASTEWATER); WATER POLLUTION CONTROL; FACILITY GUIDELINES; MANAGEMENT; JOB SKILLS; *TECHNICAL ASSISTANCE; UTILITIES; *EFFICIENCY; ENGINEERING; *MAINTENANCE

DESCRIPTIVE NOTE: 21-29P.

ABSTRACT: THIS ARTICLE DISCUSSES TWO SPECIFIC INSTANCES TO EXEMPLIFY THE PROBLEMS OF ATTAINING ADEQUATE OPERATION AND MAINTENANCE AT WASTEWATER TREATMENT FACILITIES. THE ROLE OF CONSULTANTS IN IMPROVING PLANT EFFICIENCY IS ALSO DISCUSSED.

AVAILABILITY: WATER & WASTES ENGINEERING; V16 N10

IRIS ACCESSION NUMBER: EW004264

PUBLICATION DATE: OCT 79

TITLE: ACTIVATED SLUDGE PROCESSES CAN BE CONTROLLED.

PERSONAL AUTHOR: UNY, JOSEPH F.

DESCRIPTOR: *WASTEWATER TREATMENT; *OPERATIONS (WASTEWATER); WATER POLLUTION CONTROL; *TECHNOLOGY; ENGINEERING; BIOCHEMISTRY; HYDRAULICS

DESCRIPTIVE NOTE: 32-35P.

ABSTRACT: THIS ARTICLE PRESENTS FOUR DIFFERENT APPROACHES TO STABILIZING ACTIVATED SLUDGE. EACH APPROACH IS GEARED FOR PEOPLE WITH DIFFERENT BACKGROUNDS INCLUDING: SYSTEMS ANALYSIS; MATHEMATICS; AND BIOLOGY.

AVAILABILITY: WATER & WASTES ENGINEERING; V16 N10

IRIS ACCESSION NUMBER: EW004265

PUBLICATION DATE: 79

TITLE: MUNICIPAL RECYCLING OF WASTEWATER.

PERSONAL AUTHOR: MILLIKEN, J. GORDON; TRUMBLY, ANTHONY S.

DESCRIPTOR: *COST EFFECTIVENESS; INDUSTRY; MODELS; *MUNICIPALITIES; *RECYCLING; *WASTEWATER TREATMENT; *WATER POLLUTION CONTROL; *WATER RESOURCES

DESCRIPTIVE NOTE: 548-555P.

ABSTRACT: CURRENT KNOWLEDGE ABOUT RENOVATING AND DIRECTLY RECYCLING WASTEWATER FROM MUNICIPAL AND INDUSTRIAL SEWAGE IS SURVEYED AND SUMMARIZED. PREDICTIONS ARE OFFERED AS TO THE TYPE AND EXTENT OF MUNICIPAL WASTEWATER RECYCLING LIKELY TO BE IN OPERATION BY 1995 FOR BOTH POTABLE AND NONPOTABLE REUSE.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION: V71 N10

IRIS ACCESSION NUMBER: EW004266

PUBLICATION DATE: OCT 79

TITLE: GROUNDWATER EXPLORATION AND DEVELOPMENT TECHNIQUES.

PERSONAL AUTHOR: WILLIS, ROBERT F.

DESCRIPTOR: *CONSTRUCTION; COST EFFECTIVENESS; ENVIRONMENTAL RESEARCH; GEOLOGY; *MUNICIPALITIES; *UTILITIES; *WATER RESOURCES; *WATER WELLS; *WATER SUPPLY

DESCRIPTIVE NOTE: 556-561P.

ABSTRACT: DESCRIBED ARE TECHNIQUES EMPLOYED BY THE PORTLAND (OREGON) WATER BUREAU IN ITS RECENT GROUNDWATER EXPLORATION AND DEVELOPMENT PROJECT.

AVAILABILITY: AMERICAN WATER WORKS ASSN: V71 N10

IRIS ACCESSION NUMBER: EW004267

PUBLICATION DATE: OCT 79

TITLE: THE REMOVAL OF FLUORIDE FROM WATERS BY ADSORPTION.

PERSONAL AUTHOR: CHOI, WON-WOOK AND CHEN, KENNETH Y.

DESCRIPTOR: *CHEMICAL ANALYSIS; *ENVIRONMENTAL RESEARCH; *FLUORIDES; LABORATORY PROCEDURES; *MEASUREMENT TECHNIQUES; TECHNOLOGY; *WATER QUALITY; *WATER TREATMENT.

DESCRIPTIVE NOTE: 562-570P.

ABSTRACT: DETAILED ARE THE RESULTS OF A STUDY USING VARIOUS TYPES OF ADSORBENTS, INCLUDING ACTIVATED CARBON, ACTIVATED BAUXITE AND ACTIVATED ALUMINA TO REMOVE FLUORIDE FROM WATER. FACTORS INVESTIGATED WERE CONTACT TIME, PH, SALINITY, THE INITIAL CONCENTRATION OF FLUORIDE, AND POSSIBLE COMPETITION OR INTERFERENCE BY OTHER CHEMICAL SPECIES.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION: V71 N10

IRIS ACCESSION NUMBER: EW004268

PUBLICATION DATE: OCT 79

TITLE: INITIAL MIXING BY JET INJECTION BLENDING.

PERSONAL AUTHOR: CHAO, JUNN-LING AND STONE, BRIAN G.

DESCRIPTOR: *DESIGN; *EQUIPMENT; FLOCCULATION; UTILITIES; *WASTEWATER TREATMENT; *WATER TREATMENT

DESCRIPTIVE NOTE: 570-573P.

ABSTRACT: RECENT THEORETICAL AND EXPERIMENTAL WORK POINTING TO THE USE OF IN-LINE BLENDERS IS SUMMARIZED. CRITERIA ARE OUTLINED FOR DESIGN OF A PROTOTYPE JET INJECTION SYSTEM THAT IS SIMPLE, INEXPENSIVE, AND CAPABLE OF EFFECTIVE BLENDING WITHOUT SIGNIFICANT HEAD LOSS.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION: V71 N10

IRIS ACCESSION NUMBER: EW004269

PUBLICATION DATE: OCT 79

TITLE: TESTING OF HOME USE CARBON FILTERS.

PERSONAL AUTHOR: TAYLOR, RAYMOND H.; AND OTHERS.

DESCRIPTOR: *EQUIPMENT; *EVALUATION; *MICROBIOLOGY; PUBLIC HEALTH; *WATER QUALITY; *WATER TREATMENT; *WATER SUPPLY

DESCRIPTIVE NOTE: 577-579P.

ABSTRACT: EVALUATED ARE FOUR GRANULAR ACTIVATED CARBON (G A C) POINT-OF-USE FILTRATION DEVICES FOR POTABLE HOME WATER TREATMENT. FACTORS INVESTIGATED INCLUDED EFFICIENCY FOR WATER QUALITY IMPROVEMENT AND POSSIBLE BACTERIAL GROWTH WITHIN THE CARTRIDGE.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION: V71 N10

IRIS ACCESSION NUMBER: EW004270

PUBLICATION DATE: OCT 79

TITLE: THE HELICAL FLOW REACTOR CLARIFIER: AN INNOVATION IN WATER TREATMENT.

PERSONAL AUTHOR: WYNESS, DAVID KEITH.

DESCRIPTOR: *DESIGN; *EQUIPMENT; *CLARIFIERS; TECHNOLOGY;

WATER QUALITY; *WATER TREATMENT
DESCRIPTIVE NOTE: 580-583P.

ABSTRACT: DISCUSSED ARE THE DESIGN CONSIDERATIONS, DEVELOPMENT, STRUCTURE, AND OPERATION OF A HELICAL FLOW REACTOR CLARIFIER.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION: V71 N10

IRIS ACCESSION NUMBER: EW004271

PUBLICATION DATE: 79

TITLE: ANALYTICAL NOTE-FLUORESCEIN TRACER TECHNIQUE FOR DETECTION OF GROUNDWATER CONTAMINATION.

PERSONAL AUTHOR: REZNEK, S.; AND OTHERS.

DESCRIPTOR: *CHEMICAL ANALYSIS; *INSTRUMENTATION; *LABORATORY PROCEDURES; LABORATORY TECHNIQUES; *MEASUREMENT; *FLUOROMETRY; *WATER QUALITY; *WATER POLLUTION CONTROL; *GROUNDWATER; *POLLUTION

DESCRIPTIVE NOTE: 586-587P.

ABSTRACT: DESCRIBED IS A DETECTION PROCEDURE TO MEASURE FLUORESCEIN BY FLUOROMETRY WHICH IS USEFUL IN TRACING SUSPECTED SEEPAGE FROM A CONTAMINATED GROUNDWATER SOURCE.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION: V71 N10

IRIS ACCESSION NUMBER: EW004272

PUBLICATION DATE: 79

TITLE: ORGANICS REMOVAL BY COAGULATION: A REVIEW AND RESEARCH NEEDS.

DESCRIPTOR: CHEMICAL REACTIONS; *COAGULATION; *ENVIRONMENTAL RESEARCH; LITERATURE REVIEWS; *ORGANIC CHEMISTRY; *STATE OF THE ART REVIEWS; *RESEARCH NEEDS; WATER QUALITY; *WATER TREATMENT; *AWWA RESEARCH COMMITTEE ON COAGULATION

DESCRIPTIVE NOTE: 588-603P.

ABSTRACT: THIS REPORT OF A SUBCOMMITTEE OF THE AWWA RESEARCH COMMITTEE ON COAGULATION UPDATES THE STATE OF THE ART OF ORGANICS REMOVAL BY COAGULATION. WHERE THE INFLUENCE OF OPERATIONAL VARIABLES ON ORGANICS REMOVAL HAS BEEN DETERMINED THESE OBSERVATIONS ARE SUMMARIZED, AND WHERE LIMITED OR NO DATA ARE AVAILABLE, RESEARCH NEEDS ARE STRESSED.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION: V71 N10

IRIS ACCESSION NUMBER: EW004273
TITLE: THE CENTRILINE PROCESS.

DESCRIPTOR: AUDIOVISUAL AIDS; EQUIPMENT UTILIZATION; FILMS; HYDRAULICS; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; *OPERATIONS (WATER); *PIPES; *WATER SUPPLY; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 30 MINUTE COLOR FILM-16MM RENTAL FEE-$5.00

ABSTRACT: ONE SOLUTION TO PROBLEMS RESULTING FROM TUBERCULATION AND SCALE DEPOSIT IN WATER PIPELINES IS FEATURED IN THIS FILM. TO MAINTAIN PIPE-CARRYING CAPACITIES A SYSTEM OF HYDRAULIC AND MECHANICAL CLEANING IS DEMONSTRATED.

AVAILABILITY: TECHNICAL LIBRARY, AMERICAN WATER WORKS ASSOCIATION, 6666 QUINCY AVE., DENVER, CO 80235

INSTITUTION NAME: RAYMOND INTERNATIONAL, INC.

IRIS ACCESSION NUMBER: EW004274

PUBLICATION DATE: 74

TITLE: MEASURING WITH METERS.

DESCRIPTOR: AUDIOVISUAL AIDS; FILMS; *INSTRUCTIONAL MATERIALS; LENGTH; *MEASUREMENT; MATHEMATICS; *METRIC SYSTEM; VOLUME; WEIGHT

DESCRIPTIVE NOTE: 23 MINUTES, COLOR FILM-16MM RENTAL FEE-$13.00.

ABSTRACT: THIS FILM, THROUGH THE TECHNIQUE OF DOUBLE PRINTING, ADDS PERSPECTIVE DEMENSION TO PHYSICAL RELATIONSHIPS BETWEEN BASIC METRIC UNITS FOR MEASURING LENGTH, VOLUME, AND WEIGHT.

AVAILABILITY: TECHNICAL LIBRARY, AMERICAN WATER WORKS ASSOCIATION, 6666 QUINCY AVE., DENVER, CO 80235

INSTITUTION NAME: METRICATION INSTITUTE OF AMERICA, NORTHFIELD, IL.

IRIS ACCESSION NUMBER: EW004275

TITLE: ONE IN A MILLION.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; AUDIOVISUAL AIDS; *CHEMICAL ANALYSIS; EQUIPMENT; FILMS; *INSTRUCTIONAL MATERIALS; *INSTRUMENTATION; *LABORATORY PROCEDURES; SCIENTIFIC METHODOLOGY; *SPECTROPHOTOMETERS

DESCRIPTIVE NOTE: 17 MINUTE COLOR FILM-16MM

ABSTRACT: THE THEORY AND USE OF THE ATOMIC ABSORPTION SPECTROPHOTOMETER IS EXPLAINED AND SEVERAL APPLICATIONS FOR

ITS USE IN SCIENCE AND INDUSTRY DESCRIBED.
AVAILABILITY: TECHNICAL LIBRARY, AMERICAN WATER WORKS ASSOCIATION, 6666 WEST QUINCY AVE., DENVER, CO 80235 $5.00 RENTAL FEE

INSTITUTION NAME: FISHER SCIENTIFIC COMPANY, PITTSBURGH, PA.

IRIS ACCESSION NUMBER: EW004276

PUBLICATION DATE: 75

TITLE: MULTIPLE CHOICE.

DESCRIPTOR: *ACCIDENT PREVENTION; AUDIOVISUAL AIDS; *CONSTRUCTION; *EQUIPMENT OPERATION; FILMS; *INSTRUCTIONAL MATERIALS; JOB SKILLS; *SAFETY; *WORK ENVIRONMENT

DESCRIPTIVE NOTE: 25 MINUTE COLOR FILM-16MM.

ABSTRACT: THIS FILM PRESENTS SIX SITUATIONAL DRAMATIZATIONS OF JUDGMENTAL ERRORS MADE BY HEAVY EQUIPMENT OPERATORS. THE INFORMATION PROVIDES A BACKGROUND FOR CHOICES BETWEEN SAFETY AND DISASTER.

AVAILABILITY: TECHNICAL LIBRARY, AMERICAN WATER WORKS ASSOCIATION, 6666 QUINCY AVE., DENVER, CO 80235 RENTAL FEE-$5.00

INSTITUTION NAME: CATERPILLAR TRACTOR COMPANY, PEORIA, IL.

IRIS ACCESSION NUMBER: EW004277

PUBLICATION DATE: OCT 79

TITLE: SEWAGE-TREATMENT SYSTEM CONSERVES WATER.

PERSONAL AUTHOR: DAGANI, RON.

DESCRIPTOR: CONSERVATION (ENVIRONMENT); FACILITIES; *RECYCLING; TECHNOLOGY; *TECHNOLOGICAL ADVANCEMENT; WASTE DISPOSAL; WASTEWATER TREATMENT; *WATER POLLUTION CONTROL; WATER QUALITY; WATER RESOURCES; *SEWERS

DESCRIPTIVE NOTE: 25P.

ABSTRACT: DESCRIBED IS A RECYCLING APPROACH TO SEWAGE TREATMENT SOON TO BE IN OPERATION IN A SHOPPING COMPLEX IN GREAT FALLS, VIRGINIA. FRESHWATER USE IS REDUCED UP TO 90%. WASTEWATER IS CLEANED FOR UTILITY USES AND ELIMINATES THE NEED FOR SEWERS AND SEPTIC TANKS.

AVAILABILITY: CHEMICAL AND ENGINEERING NEWS; V57 N44

IRIS ACCESSION NUMBER: EW004278
PUBLICATION DATE: OCT 79

TITLE: POOR SEWAGE PLANT PERFORMANCE? DON'T BLAME THE OPERATOR.

PERSONAL AUTHOR: GROVER, KATHRYN.

DESCRIPTOR: *COST EFFECTIVENESS; *FACILITIES; FACILITY GUIDELINES; MANPOWER UTILIZATION; UTILITIES; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT; *OPERATIONS (WASTEWATER); RESEARCH

DESCRIPTIVE NOTE: 37-42P.

ABSTRACT: DETAILED ARE THE RESULTS OF A STUDY, FUNDED BY THE FEDERAL ENVIRONMENTAL PROTECTION AGENCY AND CONDUCTED BY MSI, INC., EVALUATING THE SPECIFIC TOPICS NORMALLY BELIEVED TO BE THE MAJOR PROBLEMS IN POOR SEWAGE PLANT PERFORMANCE. TOPICS INVESTIGATED INCLUDED: STAFFING, CERTIFICATION, OPERATIONS, BUDGETS, OPERATOR SALARIES, AND INDUSTRY EXPERTS.

AVAILABILITY: AMERICAN CITY AND COUNTY; V94 N10

IRIS ACCESSION NUMBER: EW004279

PUBLICATION DATE: OCT 79

TITLE: PLASTIC WATER PIPE: HOW WELL DOES IT HOLD UP?
PERSONAL AUTHOR: O'CONNOR, JOHN

DESCRIPTOR: CONSTRUCTION; *MAINTENANCE; *PERFORMANCE; *PLASTIC PIPE; *STANDARDS; *SURVEYS; UTILITIES; *PIPE; *WATER SUPPLY

DESCRIPTIVE NOTE: 71-74P.

ABSTRACT: PRESENTED ARE THE RESULTS OF A SURVEY CONDUCTED BY THE AMERICAN WATER WORKS ASSOCIATION ON THE USE OF PLASTIC PIPE BY DRINKING WATER SUPPLIERS. ALSO DISCUSSED ARE THE FOLLOWING TOPICS: ADVANTAGES AND DISADVANTAGES OF PLASTICS USE, STANDARDS, PLASTIC MATERIALS UTILIZED IN CONSTRUCTION, AND PROPER TECHNIQUES FOR INSTALLING PLASTIC MAINS.

AVAILABILITY: AMERICAN CITY AND COUNTY; V94 N10

IRIS ACCESSION NUMBER: EW004280

PUBLICATION DATE: SEP 79

TITLE: SEWAGE PLANT ODOR CONTROL.

PERSONAL AUTHOR: BURSTEIN, DAVID.

DESCRIPTOR: *EQUIPMENT; *FACILITIES; *FACILITY GUIDELINES; *ODORS; POLLUTION; *ODOR CONTROL; TECHNOLOGY; *TECHNOLOGICAL

ADVANCEMENT; WASTE DISPOSAL; *WASTEWATER TREATMENT
DESCRIPTIVE NOTE: 73-76P.

ABSTRACT: DISCUSSED ARE THE IMPORTANT CONSIDERATIONS FOR ODOR CONTROL IN WASTEWATER TREATMENT PLANTS. THESE CONSIDERATION INCLUDE: SITING OF THE FACILITY, PREVENTION OF ODOR FORMATION, IDENTIFICATION OF POTENTIAL ODOR SOURCES, CONTAINMENT OF ODOR SOURCES, TREATMENT OF ODOROUS OFF-GASES, AND MASKING OF UNPLEASANT ODORS.

AVAILABILITY: AMERICAN CITY AND COUNTY; V94 N9

IRIS ACCESSION NUMBER: EW004281

PUBLICATION DATE: SEP 79

TITLE: TRENCHLESS SEWER LOWERS CONSTRUCITON COST 50%.

DESCRIPTOR: *COSTS; COMPARATIVE ANALYSIS; *CONSTRUCTION; *SEWERS; *TECHNOLOGY; TECHNOLOGICAL ADVANCEMENT; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 93-94P.

ABSTRACT: PRESENTED ARE THE RESULTS OF A STUDY, CONDUCTED UNDER AN ENVIRONMENTAL PROTECTION AGENCY GRANT, WHICH COMPARED THE TRENCHLESS METHOD OF SEWER CONSTRUCTION AGAINST THE OPEN TRENCH METHOD. RESULTS INDICATE THAT THE UNIT BID PRICE, INSTALLATION COSTS, AND LABOR COSTS WERE LOWER FOR THE TRENCHLESS METHOD.
AVAILABILITY: AMERICAN CITY AND COUNTY; V94 N9

IRIS ACCESSION NUMBER: EW004282

PUBLICATION DATE: SEP 79

TITLE: A TALE OF TWO WELL SYSTEMS.

DESCRIPTOR: *CONSERVATION (ENVIRONMENT); ENVIRONMENTAL INFLUENCES; *MUNICIPALITIES; *REGULATIONS; *RIVERS; GROUND WATER RECHARGE; *WATER CONSERVATION; *WATER RESOURCES; *WATER WELLS; *CASE STUDIES

DESCRIPTIVE NOTE: 99-101P.

ABSTRACT: PRESENTED ARE TWO CASE STUDIES RELATING HOW TWO RIVER COMMUNITIES, SIOUX FALLS, SOUTH DAKOTA, AND SPOKANE, WASHINGTON, SOLVED THEIR UNPREDICTABLE WELL WATER SUPPLY PROBLEMS BROUGHT ABOUT BY DROUGHT AND HIGHLY IRREGULAR TOPOGRAPHY.

AVAILABILITY: AMERICAN CITY AND COUNTY; V94 N9

IRIS ACCESSION NUMBER: EW004283
PUBLICATION DATE: AUG 79

TITLE: PRELIMINARY TREATMENT: A SEWAGE PLANT'S FIRST LINE OF DEFENSE.

DESCRIPTOR: *EQUIPMENT; EQUIPMENT MAINTENANCE; FACILITIES; *TECHNOLOGICAL ADVANCEMENT; COMMINUTING; *SCREENING; *WASTE DISPOSAL; WASTES; *WASTEWATER TREATMENT; *WATER POLLUTION CONTROL; *OPERATIONS (WASTEWATER); *PRELIMINARY TREATMENT

DESCRIPTIVE NOTE: 61-64P.

ABSTRACT: DETAILED IS THE IMPORTANCE OF SCREENING, COMMINUTING, AND GRIT REMOVAL IN THE PRELIMINARY TREATMENT OF SEWAGE. THE EQUIPMENT UTILIZED, WASTE MATERIALS COLLECTED, AND PROCESSES INVOLVED IN EACH STEP OF TREATMENT ARE DESCRIBED. DISPOSAL METHODS FOR SOLID WASTES COLLECTED ARE PRESENTED.

AVAILABILITY: AMERICAN CITY AND COUNTY; V94 N8

IRIS ACCESSION NUMBER: EW004284

PUBLICATION DATE: OCT 79

TITLE: TESTING AND DATA ANLYSIS OF DIFFUSED AERATION EQUIPMENT.

PERSONAL AUTHOR: EWING, LLOYD; AND OTHERS
DESCRIPTOR: *LABORATORY PROCEDURES; EQUIPMENT; *MATHEMATICAL MODELS; *WATER TREATMENT; WATER POLLUTION CONTROL; RESEARCH; TECHNOLOGY; CHEMICAL REACTIONS; *DATA ANALYSIS; COST EFFECTIVENESS; *ANALYTICAL TECHNIQUES; *AERATION

DESCRIPTIVE NOTE: 2384-2401P.

ABSTRACT: THIS ARTICLE DISCUSSES EXPERIENCES AND INCONSISTENCIES ENCOUNTERED WITH THE NON-STEADY-STATE TEST IN PREDICTING PERFORMANCE OF AERATION SYSTEMS IN CLEAR WATER UNDER FIELD CONDITIONS.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL; V51 N10

IRIS ACCESSION NUMBER: EW004285

PUBLICATION DATE: OCT 79

TITLE: COLORIMETRIC DETERMINATION OF ZINC WITH ZINCON AND CYCLOHEXANONE.

PERSONAL AUTHOR: MILLER, D. G.

DESCRIPTOR: *CHEMICAL REACTIONS; *LABORATORY PROCEDURES; *WASTEWATER TREATMENT; WATER POLLUTION CONTROL; *WATER TREATMENT; *RESEARCH; *ANALYTICAL TECHNIQUES; *COLORIMETRIC DETERMINATION; *ZINC.

DESCRIPTIVE NOTE: 2402-2412P.
ABSTRACT: THIS ARTICLE DISCUSSES A SYSTEM DEVELOPED FOR THE ANALYSIS OF ZINC IN WATER AND WASTEWATER SAMPLES USING CYCLOHEXANONE. REAGENT PREPARATIONS AND A DETAILED METHOD FOR USE ARE OUTLINED.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL: V51 N10

IRIS ACCESSION NUMBER: EW004286

PUBLICATION DATE: OCT 79

TITLE: CODISPOSAL OF WATER SOFTENING AND WASTEWATER SLUDGES.

PERSONAL AUTHOR: HUNAG, JU-CHANG; NGUYEN, HAO Q.

DESCRIPTOR: *WASTE DISPOSAL; WATER TREATMENT; WATER POLLUTION CONTROL; *RESEARCH; ENGINEERING; LEGISLATION; LAND USE; *SLUDGE; *WASTEWATER TREATMENT.

DESCRIPTIVE NOTE: 2413-2418P.

ABSTRACT: THIS ARTICLE DISCUSSES A STUDY CONDUCTED TO EVALUATE VARIOUS ENGINEERING PARAMETERS PERTINENT TO THE ADOPTION OF CODISPOSAL OF WATER-SOFTENING AND ACTIVATED-WASTEWATER SLUDGE.

AVAILABILITY: JORNAL WATER POLLUTION CONTROL; V51 N10

IRIS ACCESSION NUMBER: EW004287

PUBLICATION DATE: OCT 79

TITLE: SUBSURFACE AERATION EVALUATION.

PERSONAL AUTHOR: LAKIN, MICHAEL B. AND SALZMAN, RONALD N.

DESCRIPTOR: *MATHEMATICAL MODELS; *RESEARCH; WATER POLLUTION CONTROL; *AERATION; CHEMICAL ANALYSIS; *OPERATIONS (WASTEWATER); EQUIPMENT; ENGINEERING; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 2419-2428P.

ABSTRACT: THIS ARTICLE DISCUSSES THE STUDIES DONE ON AN ANALYTICAL PROCEDURE FOR EVALUATING SUBSURFACE AERATION SYSTEMS. A UNIFIED SEMIFLOW-REACTOR APPROACH IS PRESENTED.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL; V51 N10

IRIS ACCESSION NUMBER: EW004288

PUBLICATION DATE: OCT 79

TITLE: EXTRACTION OF ORGANIC MATTER IN WATER--THE CAROLINA METHOD.

PERSONAL AUTHOR: SCHNARE, DAVID W.
DESCRIPTOR: *CHEMICAL ANALYSIS; *LABORATORY METHODS; WATER QUALITY; WATER POLLUTION CONTROL; *DRINKING WATER; *RESEARCH

DESCRIPTIVE NOTE: 2467-2474P.

ABSTRACT: THIS ARTICLE DISCUSSES THE USE OF THE CAROLINA METHOD FOR ANALYZING ORGANIC COMPOUNDS IN WATER. IT COMPARES FAVORABLY TO OTHER RESIN TECHNIQUES BECAUSE OF IN PLACE DESORPTION, REDUCTION OF HANDLING, AND INTERNAL STANDARDIZATION.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL; V51 N10

IRIS ACCESSION NUMBER: EW004289

PUBLICATION DATE: OCT 79

TITLE: EFFECT OF HEAVY METALS IN SLUDGE ON AGRICULTURAL CROPS.

PERSONAL AUTHOR: HYDE, HENRY C.; AND OTHERS.

DESCRIPTOR: *AGRICULTURAL PRODUCTION; *LAND APPLICATION; *WASTE DISPOSAL; WATER POLLUTION CONTROL; *SLUDGE; *HEAVY METALS; *WASTEWATER TREATMENT; CHEMICAL ANALYSIS; *RESEARCH

DESCRIPTIVE NOTE: 2475-2486P.

ABSTRACT: THIS ARTICLE REPORTS THE RESULTS OF FOUR YEARS OF FIELD STUDIES AND ONE-YEAR OF GREENHOUSE STUDIES TO EVALUATE THE EFFECTS OF TRACE METALS ON CROPS IN SLUDGE AMENDED SOIL. ALSO DISCUSSED ARE MANAGEMENT TECHNIQUES FOR SAFE AGRICULTURAL USE OF SLUDGE.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL; V51 N10

IRIS ACCESSION NUMBER: EW004290

PUBLICATION DATE: OCT 79

TITLE: CHEMICAL REACTIONS AFFECTING FILTERABILITY IN IRON-LIME SLUDGE CONDITIONING.

PERSONAL AUTHOR: CHRISTENSE, G. LEE; STULE, DONALD A.

DESCRIPTOR: *CHEMICAL REACTIONS; *WASTEWATER TREATMENT; WASTE DISPOSAL; WATER POLLUTION CONTROL; *OPERATIONS (WASTEWATER); *SLUDGE; *RESEARCH; COST EFFECTIVENESS

DESCRIPTIVE NOTE: 2499-2512P.

ABSTRACT: THIS PAPER PRESENTS THE RESULTS OF A STUDY ON THE CHEMICAL REACTIONS OF IMPORTANCE IN IRON-LIME SLUDGE CONDITIONING FOR WASTEWATER TREATMENT FACILITIES.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL; V51 N10

IRIS ACCESSION NUMBER: EW004291

PUBLICATION DATE: OCT 79

TITLE: PERFORMANCE CHARACTERISTICS OF AN AMPEROMETRIC TITRATOR.

PERSONAL AUTHOR: PAYNE, J. TIMOTHY

DESCRIPTOR: *CHEMICAL ANALYSIS; *EQUIPMENT; RESEARCH; *CHLORINE; *WATER TREATMENT; WASTEWATER TREATMENT; WATER POLLUTION CONTROL; *LABORATORY TECHNIQUES; *TITRATION.

DESCRIPTIVE NOTE: 2540-2544P.

ABSTRACT: THIS ARTICLE DISCUSSES A HOME-MADE AMPEROMETRIC TITRATION APPARATUS FOR DETERMININING RESIDUAL CHLORINE. THE DATA PRESENTED INDICATES THE APPARATUS OPERATES WITH PRECISION AND ACCURARY.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL; V51 N10

IRIS ACCESSION NUMBER: EW004292

PUBLICATION DATE: 78

TITLE: INDICATORS OF VIRUSES IN WATER AND FOOD.

PERSONAL AUTHOR: BERG, GERALD.

DESCRIPTOR: ANALYTICAL TECHNIQUES; DISEASE CONTROL; ENVIRONMENT; FOOD; *INSTRUCTIONAL MATERIALS; *MICROBIOLOGY; *MEASUREMENT TECHNIQUES; POST SECONDARY EDUCATION; *PUBLIC HEALTH; *SANITATION; TECHNOLOGY; *VIRUSES; *WATER QUALITY; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 424P.

ABSTRACT: THIS BOOK PRESENTS A STATE-OF-THE-ART DISCUSSION SURROUNDING INDICATORS OF VIRUSES IN WATER AND FOODS AND THE PHILOSOPHY OF INDICATOR SYSTEMS. PRESENTED ARE NUMEROUS DISCUSSIONS ON SYSTEMS AND MAJOR INDICATOR GROUPS, DISCUSSING NOT ONLY THE BASIS FOR THEIR USEFULNESS, BUT THEIR SHORT COMINGS AS WELL. EACH CHAPTER IS REFERENCED BY AN EXTENSIVE BIBLIOGRAPHY.

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS INC., PO BOX 1425, ANN ARBOR, MI 48106 PRICE: $39.95

IRIS ACCESSION NUMBER: EW004293

PUBLICATION DATE: 78

TITLE: SOURCEBOOK ON THE ENVIRONMENT - A GUIDE TO THE LITERATURE.

PERSONAL AUTHOR: HAMMOND, KENNETH A.; AND OTHERS -EDITORS

DESCRIPTOR: AIR QUALITY; *CASE STUDIES; ECOLOGY; ENERGY; *ENVIRONMENT; ENVIRONMENTAL INFLUENCES; GEOGRAPHY; *INTERDISCIPLINARY APPROACH; LEGISLATION; *LITERATURE GUIDES; *NATURAL RESOURCES; POLLUTION; *SOURCEBOOKS; WATER QUALITY

DESCRIPTIVE NOTE: 613P.

ABSTRACT: THIS SOURCE BOOK, INITIATED AND DESIGNED BY THE ASSOCIATION OF AMERICAN GEOGRAPHERS, PROVIDES A GUIDE TO SELECTED ASPECTS OF ENVIRONMENTAL LITERATURE. CRITICALLY ANNOTATED COMMENTARIES FROM 26 SPECIALISTS INTRODUCE THE BASIC LITERATURE IN THE FIELD AND PROVIDE DIRECTIONS FOR EXAMINATION OF MORE ADVANCED AND MORE SPECIALIZED WORKS. THIS PUBLICATION IS DIVIDED INTO THREE PARTS. PART ONE PROVIDES AN INTRODUCTION TO VARIOUS ENVIRONMENTAL PHILOSOPHIES AND PERSPECTIVES, CONTEMPLATES REACTIONS TO SOME PROBLEMS AND PREVIEWS THE FUTURE. PART TWO INVESTIGATES TREATMENT OF THE ENVIRONMENT THROUGH SELECTED CASE STUDIES. PART THREE FOLLOWS WITH REFERENCES THAT ARE CONSIDERED BASIC TO AN UNDERSTANDING OF THE FUNCTIONING OF THE ENVIRONMENT AND INTRODUCES SOME CRUCIAL ENVIRONMENTAL PROBLEMS AS AIR QUALITY, ENERGY, AND COASTAL ZONE POLLUTION. THE APPENDIX INCLUDES A LISTING OF SELECTED PERIODICALS OF ENVIRONMENTAL INTEREST, A REVIEW OF FEDERAL ENVIRONMENTAL LEGISLATION, A SELECTED LIST OF ENVIRONMENTAL ORGANZATIONS AND A SUBJECT AND AUTHOR INDEX.

AVAILABILITY: THE UNIVERSITY OF CHICAGO PRESS, 5801 SOUTH ELLIS AVE., CHICAGO, I 60637 PRICE: $20.00

IRIS ACCESSION NUMBER: EW004294

PUBLICATION DATE: 79

TITLE: UNIT PROCESSES SERIES VOLUME 1. UNIT PROCESS GUIDE TO ORGANIC CHEMICAL INDUSTRIES.

PERSONAL AUTHOR: HERRICK, ELBERT C.; AND OTHERS

DESCRIPTOR: *CHEMICAL REACTIONS; ENVIRONMENT; ENGINEERING; *INDUSTRY; MANUFACTURING; *ORGANIC CHEMISTRY; *PRODUCTION TECHNIQUES; *POLLUTION; *REGULATIONS; *TECHNOLOGY; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 146P. PRICE: $20.00

ABSTRACT: THIS BOOK IS THE FIRST PART OF A TWO-VOLUME SERIES. IT IDENTIFIES THE COMMERCIALLY SIGNIFICANT UNIT PROCESSES USED IN THE MANUFACTURE OF PRINCIPAL ORGANIC CHEMICALS IN U.S. COMMERCE. AREAS DISCUSSED INCLUDE: ENVIRONMENTAL REGULATIONS; UNIT PROCESS GUIDE; DEFINITIONS OF MAJOR AND MINOR PROCESSES; AND A DIRECTORY OF COMPANIES OWNING AND/OR LICENSING DESCRIBED PROCESSES.

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS INC., P.O. BOX 1425, ANN ARBOR, MICHIGAN 48106

IRIS ACCESSION NUMBER: EW004295
PUBLICATION DATE: 79

TITLE: UNIT PROCESSES SERIES VOLUME II. AMINATION PROCESSES POLLUTANT DISCHARGES IDENTIFICATION.

PERSONAL AUTHOR: KING, JOHN A.; AND OTHERS.

DESCRIPTOR: *CHEMICAL REACTIONS; ENVIRONMENT; ENGINEERING; *INDUSTRY; MANUFACTURING; *ORGANIC CHEMISTRY; *PRODUCTION TECHNIQUES; *POLLUTION; *TECHNOLOGY; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 111P.

ABSTRACT: THIS BOOK IS THE SECOND PART OF A TWO-VOLUME SERIES. MANUFACTURING PROCESSES USED IN THE CHEMICAL INDUSTRY ARE EXAMINED AS UNIT PROCESS COMPONENTS AND THEIR FUNDAMENTAL CHEMICAL REACTIONS IN ORGANIC SYNTHESIS ARE PRESENTED. PROCESS DESCRIPTIONS WITH FLOW DIAGRAMS ARE PRESENTED AND COMPARED FOR SIX PROCESSES.

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS INC., P.O. BOX 1425, ANN ARBOR, MICHIGAN 48106 PRICE $20.00

IRIS ACCESSION NUMBER: EW004296

PUBLICATION DATE: 76

TITLE: COASTAL WATERS- A MANAGEMENT ANALYSIS.

PERSONAL AUTHOR: ARMSTRONG, JOHN M.; RYNER, PETER C.

DESCRIPTOR: *COASTAL ZONE MANAGEMENT; *COASTAL ZONE MANAGEMENT ACT OF 1972; *ENVIRONMENT; *FEDERAL STATE RELATIONSHIP; LEGISLATION; *MANAGEMENT; *OCEANOLOGY; PLANNING; *POLLUTION; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 240P.

ABSTRACT: THIS DOCUMENT, INTENDED FOR PLANNERS, MANAGERS, AND RESEARCHERS INVOLVED IN THE DEVELOPMENT OF OCEAN AND COASTAL RESOURCE MANAGEMENT, OVERVIEWS THE FACTORS THAT WILL BE INVOLVED IN THE STATES' EFFORTS TO ESTABLISH COMPREHENSIVE MANAGEMENT AND PLANNING PROGRAMS FOR THEIR COASTAL WATERS. FOUR MAJOR THEMES ARE PRESENTED: (1) A DESCRIPTION OF THE VARIOUS USES OF COASTAL WATERS AND THE IMPLICATIONS OF THOSE USES FOR COMPREHENSIVE MANAGEMENT; (2) A DESCRIPTION AND ANALYSIS OF EXISTING BASES OF AUTHORITY TO MANAGE COASTAL WATERS; (3) A DISCUSSION OF THE COASTAL ZONE MANAGEMENT ACT IN TERMS OF ITS UTILITY FOR MANAGING COASTAL WATERS; AND (4) A PRESENTAION OF SOME CONCEPTS FOR COASTAL WATER MANAGEMENT. TOPICS EXAMINED INCLUDE OCEAN DUMPING, OIL AND NATURAL GAS TRANSPORT, DEEP WATER PORTS, OIL SUPERTANKERS, FISHERIES PROTECTION, FACTORS IN DEVELOPING PROGRAMS, AND THE CURRENT PROGRAMS IN SIX COASTAL STATES.

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, INC., PO BOX 1425, ANN ARBOR, MI 48106 PRICE: $20.00

IRIS ACCESSION NUMBER: EW004297
PUBLICATION DATE: 79

TITLE: SANITARY ENGINEERING PROBLEMS AND CALCULATIONS FOR THE PROFESSIONAL ENGINEER.

PERSONAL AUTHOR: HARBOLD, HARRY S.

DESCRIPTOR: *CALCULATIONS; *ENGINEERING; ENVIRONMENTAL TECHNICIAN; ECONOMICS; *INSTRUCTIONAL MATERIALS; JOB SKILLS; *MATHEMATICS; OPERATIONS (WASTEWATER); PUBLIC HEALTH; *SANITATION; *WASTEWATER TREATMENT; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 292P.

ABSTRACT: THIS BOOK PROVIDES A PRACTICAL GUIDE TO SANITARY ENGINEERING CALCULATIONS. OVER 100 PROBLEMS WITH DETAILED SOLUTIONS ARE INCLUDED. FOUR MAIN SUBJECT AREAS ARE DISCUSSED: FLUID FLOW; WATER SUPPLY AND TREATMENT; WASTEWATER TREATMENT; AND ECONOMICS. CHAPTER ONE EMPHASIZES THE MANNING, HAZEN-WILLIAMS, AND DARCY-WEISBACH EQUATIONS FOR CONVEYANCE SYSTEMS. CHAPTERS 2 THRU 5 CONCENTRATE ON SPECIFIC PROBLEMS OF WATER AND WASTEWATER TREATMENT, WHILE CHAPTER SIX PROVIDES DIFFERENT TYPES OF ECONOMIC ANALYSES APPLICABLE TO SANITARY ENGINEERING.

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS INC., P O BOX 1425, ANN ARBOR MI 48106 PRICE: $14.95

IRIS ACCESSION NUMBER: EW004298

PUBLICATION DATE: 79

TITLE: ORGANICS ANALYSIS USING GAS CHROMATOGRAPHY MASS SPECTROMETRY.

PERSONAL AUTHOR: BUDDE, WILLIAM L.; EICHELBERGER, JAMES W.

DESCRIPTOR: *CHEMICAL ANALYSIS; DATA PROCESSING; *ENVIRONMENT; *GAS CHROMATOGRAPHY; *INSTRUMENTATION; *LABORATORY PROCEDURES; *LABORATORY TECHNIQUES; MASS SPECTROMETRY; *MEASUREMENT TECHNIQUES; *ORGANIC CHEMISTRY; *POLLUTION

DESCRIPTIVE NOTE: 242P.

ABSTRACT: THIS PROCEDURAL MANUAL DEFINES THE AREAS OF APPLICABILITY OF GAS CHROMATOGRAPHY/MASS SPECTROMETRY IN ENVIRONMENTAL ANALYSIS. THE MANUAL INCLUDES SAMPLE PREPARATION METHODS SPECIFICALLY ADAPTED TO THIS MEASUREMENT TECHNIQUE, DATA PROCESSING AND INTERPRETATION METHODS, QUALITY CONTROL PROCEDURES, QUANTITATIVE ANALYTICAL TECHNIQUES, UTILITY SOFTWARE REQUIREMENTS, PREVENTIVE MAINTENANCE RECOMMENDATIONS, SYSTEMATIC TROUBLE SHOOTING METHODS, AND A SELECTED BIBLIOGRAPHY.

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS INC., PO BOX 1425, ANN ARBOR, MI 48106 PRICE: $20.00

IRIS ACCESSION NUMBER: EW004299
PUBLICATION DATE: FEB 78

TITLE: OPERATIONS MANUAL - SLUDGE HANDLING AND CONDITIONING.

PERSONAL AUTHOR: ETTLICH, WILLIAM F.; AND OTHERS.

DESCRIPTOR: *EQUIPMENT UTILIZATION; LAND; *MAINTENANCE; *OPERATIONS (WASTEWATER); PUBLIC HEALTH; *SLUDGE; UTILITIES; *WASTEWATER TREATMENT; WATER POLLUTION CONTROL; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 417P.

ABSTRACT: THIS MANUAL PROVIDES GUIDANCE IN THE PROPER OPERATION AND MAINTENANCE OF VARIOUS SLUDGE PROCESSING, CONDITIONING, AND DISPOSAL SYSTEMS AT WASTEWATER TREATMENT FACILITIES. EMPHASIS IS PLACED ON THE ESTABLISHMENT OF GOOD OPERATIONAL PROCEDURES, PROPER TESTING, AND EFFECTIVE MEASURES AND PROCEDURES FOR DETECTION AND CORRECTION OF OPERATIONAL PROBLEMS.

AVAILABILITY: U.S. DEPARTMENT OF COMMERCE, NATIONAL TECHNICAL INFORMATION SERVICE, OPERATIONS DIVISION, SPRINGFIELD, VA 22161 PRICE: $12.50

IRIS ACCESSION NUMBER: EW004300

PUBLICATION DATE: 77

TITLE: OPERATIONS MANUAL - STABILIZATION PONDS.

PERSONAL AUTHOR: ZICKEFOOSE, CHUCK AND HAYES, R. B. JOE

DESCRIPTOR: *EQUIPMENT; *INSTRUCTIONAL MATERIALS; *JOB SKILLS; LABORATORY METHODS; LAND USE; *OPERATIONS (WASTEWATER); SAFETY; SAMPLING; *STABILIZATION PONDS; *WASTEWATER TREATMENT; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 96P.

ABSTRACT: THIS MANUAL PRESENTS BASIC INFORMATION ABOUT THE TYPES OF STABILIZATION PONDS, TERMINOLOGY, AND FACTORS TO CONSIDER IN THEIR OPERATION. IT CONSIDERS SAMPLING, FLOW CONTROL, AND THE USE OF INFORMATION FROM SITE INVESTIGATIONS. A NUMBER OF POTENTIAL PROBLEMS WITH RECOMMENDED SOLUTIONS ARE PRESENTED. MAJOR POINTS ARE GIVEN ON SAFETY. THE TEXT IS DIVIDED INTO SIX MAIN SECTIONS INCLUDING: THE BASICS; CONTROL INFORMATION; OPERATION AND MAINTENANCE; AND TROUBLESHOOTING.

AVAILABILITY: US DEPARTMENT OF COMMERCE, NATIONAL TECHNICAL INFORMATION SERVICE, OPERATIONS DIVISION, SPRINGFIELD, VIRGINIA 22161 PRICE: $6.00

IRIS ACCESSION NUMBER: EW004301
PUBLICATION DATE: 78

TITLE: PLANNING FOR WATER REUSE.

PERSONAL AUTHOR: BAUMANN, DUANE D. AND DWORKIN, DANIEL M.

DESCRIPTOR: *CONSERVATION; ENGINEERING; ENVIRONMENTAL INFLUENCES; GEOGRAPHY; MUNICIPALITIES; PUBLIC HEALTH; *RECYCLING; SANITATION; TECHNOLOGY; UTILITIES; *WATER DEMAND; *WATER RESOURCES; *WATER SUPPLY; WASTE DISPOSAL; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 199P.

ABSTRACT: THE PAPERS ASSEMBLED IN THIS BOOK REVIEW THE PROBLEMS ASSOCIATED WITH WATER REUSE. THE SUBJECT IS APPROACHED FROM THE STANDPOINTS OF ECONOMICS, ENGINEERING, GEOGRAPHY, PSYCHOLOGY, AND RELATED DISCIPLINES. A SIMPLE MODEL FOR COMPARING ALTERNATIVES OF WATER SUPPLY AND WATER DEMAND MANAGEMENT IS PRESENTED. EACH PAPER INCLUDES A LIST OF REFERENCES.

AVAILABILITY: MAAROUFA PRESS INC., 610 NORTH FAIRBANKS COURT, CHICAGO, IL 60611 PRICE: $30.00

IRIS ACCESSION NUMBER: EW004302

PUBLICATION DATE: 79

TITLE: SEPTIC TANK PRACTICES.

PERSONAL AUTHOR: WARSHALL, PETER.

DESCRIPTOR: *CONSERVATION (ENVIRONMENT); ENVIRONMENT; EQUIPMENT; *LAND USE; PUBLIC HEALTH; *RECYCLING; *SANITATION; SOILS; *SEPTIC TANKS; *WASTEWATER TREATMENT; *WASTE DISPOSAL; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 177P.

ABSTRACT: THIS BOOK DISCUSSES THE PRINCIPLES ASSOCIATED WITH HOME SEWAGE SYSTEMS INCLUDING HOW TO CHOOSE, INSTALL, AND MAINTAIN A SYSTEM FOR A SPECIFIC SITE. IT ALSO SHOWS HOW GREY-WATER CAN BE RECYCLED, AND LISTS WATER-SAVING DEVICES THAT CAN REDUCE HOUSEHOLD WATER USE.

AVAILABILITY: DOUBLEDAY AND COMPANY, INC., 245 PARK AVENUE, NEW YORK, NY 10017 PRICE: $5.00

IRIS ACCESSION NUMBER: EW004308

PUBLICATION DATE: MAR 75

TITLE: LOGGING ROADS AND PROTECTION OF WATER QUALITY.

DESCRIPTOR: CHEMICALS; *CONSTRUCTION; *DESIGN; *EROSION; *FORESTRY; *MANAGEMENT; *NONPOINT SOURCE POLLUTION; *OPERATIONS (LOGGING); PLANNING; *ROADS; SILVICULTURE;

*WATER POLLUTION CONTROL; *WATER QUALITY
DESCRIPTIVE NOTE: 315P.

ABSTRACT: THIS REPORT IS A STATE-OF-THE-ART REFERENCE OF METHODS, PROCEDURES AND PRACTICES RELATED TO THE PLANNING, DESIGN, CONSTRUCTION, RECONSTRUCTION USE AND MAINTENANCE OF LOGGING ROADS TO IMPROVE WATER QUALITY. THE REPORT IS DIVIDED INTO TWO PARTS. THE FIRST PART PROVIDES GENERAL PERSPECTIVE ON PHYSICAL FEATURES AND CONDITIONS IN EPA REGION X WHICH ARE RELEVANT TO WATER QUALITY PROTECTION AND LOGGING ROADS. THE SECOND PART OUTLINES SPECIFIC METHODS, PROCEDURES, CRITERIA, AND ALTERNATIVES FOR REDUCING THE DEGREDATION OF WATER QUALITY. TOPIC COVERAGE IN THIS PART INCLUDES ROAD PLANNING, DESIGN, CONSTRUCTION AND MAINTENANCE, INCLUDING THE USE OF CHEMICALS ON ROADS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, SPRINGFIELD, VIRGINIA 22161.

INSTITUTION NAME: EPA, REGION X, ARNOLD 8 ARNOLD 8 DAMES 8 MOORE, SEATTLE, WASHINGTON.

IRIS ACCESSION NUMBER: EW004315

TITLE: WATER QUALITY MANAGEMENT PLAN FOR FORESTRY.

DESCRIPTOR: *EROSION; *FORESTRY; *GUIDELINES; *MANAGEMENT; *NORTH CAROLINA; *OPERATIONS (LOGGING); *SILVICULTURE; *STATEWIDE PLANNING; *WATER POLLUTION CONTROL; *WATER QUALITY
DESCRIPTIVE NOTE: 52P.

ABSTRACT: DESCRIBED ARE METHODS FOR SILVICULTURAL WATER POLLUTION PREVENTION. THE USE OF THREE MANAGEMENT PRACTICES ARE ENCOURAGED: FILTER STRIPS, PROPER ROAD AND TRAIL PLACEMENT AND CONSTRUCTION, AND LEAST-DISTURBANCE SITE PREPARTION. THE PLAN CONSIDERS SILVICULTURE ONLY A MINOR SOURCE OF WATER POLLUTION IN NORTH CAROLINA AND THEREFORE, ADVOCATES ONLY LIMITED EMPHASIS BE PLACED ON MITIGATING WATER POLLUTION FROM THIS SOURCE.

AVAILABILITY: NORTH CAROLINA DEPT OF NATURAL RESOURCES 8 COMMUNITY DEVELOPMENT, DIVISION OF ENVIRONMENTAL MANAGEMENT

IRIS ACCESSION NUMBER: EW004317

PUBLICATION DATE: MAR 77

TITLE: RECOMMENDED METHODS FOR CLASSIFYING LAKE CONDITIONS, DETERMINING LAKE SENSITIVITY, AND PREDICTING LAKE IMPACTS.

PERSONAL AUTHOR: HARN, HERBERT S.; PARROTT, HARRY A.

DESCRIPTOR: DECISION MAKING; EUTROPHICATION; FORESTRY; *GUIDELINES; HYDROLOGY; *LAKES; LAND USE; *MANAGEMENT; *MODELS; NATIONAL FORESTS; *NUTRIENTS; *RECREATION; WATER QUALITY; *WATER RESOURCES

DESCRIPTIVE NOTE: 49P. FTS 362-3342 COMM. 414-224-3342
ABSTRACT: THIS PUBLICATION DETAILS THE MANAGEMENT TOOLS AND GUIDELINES NEEDED BY THE RESOURCE MANAGER TO MAKE DECISIONS AFFECTING LAKE DEVELOPMENT AND USE. RECOMMENDED METHODS FOR INVENTORYING AND CLASSIFYING LAKES AND FOR PREDICTING LAKE IMPACTS ARE PRESENTED. THESE METHODS INCLUDE THE USE OF THREE MANAGEMENT TOOLS: A TROPHIC STATE INDEX FOR DESCRIBING THE EXISTING CONDITION OF LAKES, A SENSITIVITY CLASSIFICATION FOR DESCRIBING THE POTENTIAL RESPONSE OF LAKES TO A NUTRIENT BUDGET MODEL FOR PREDICTING LAKE IMPACTS AND DETERMINING LAKE CARRYING CAPACITIES. THE APPLICATION OF THESE THRU MANAGEMENT TOOLS IS DISCUSSED.

AVAILABILITY: REGIONAL WATER QUALITY SPECIALIST, FOREST SERVICE, 633 WEST WISCONSIN AVE., MILWAUKEE, WI 53203

IRIS ACCESSION NUMBER: EW004318

PUBLICATION DATE: 76

TITLE: EFFECTS OF TIMBER HARVEST ON WATER CHEMISTRY.

PERSONAL AUTHOR: STUART, GORDON; DUNSHIE, DALE

DESCRIPTOR: CHEMICAL ANALYSIS; ENVIRONMENTAL RESEARCH; FISHERIES; FORESTRY; *MANAGEMENT; *MONITORING; NATIONAL FORESTS; *NONPOINT SOURCE POLLUTION; *NUTRIENTS; *OPERATIONS (LOGGING); *WATER POLLUTION CONTROL; *WATER QUALITY

DESCRIPTIVE NOTE: 35P. FTS 362-3342 COMM. 414-224-3342
ABSTRACT: THIS DOCUMENT DISCUSSES THE CHEMICAL AND BIOLOGICAL MONITORING OF SEVERAL SMALL STREAMS OF THE WHITE MOUNTAIN NATIONAL FOREST. THE STUDY, CONDUCTED DURING THE PERIOD 1972-1974, ASSESSES NUTRIENT RELEASE FROM THE HARVESTING OF NORTHERN HARDWOODS AND RED SPRUCE ON THE UPPER MILL BROOK ISLE, A HARVEST OPERATION CONSIDERED TYPICAL OF THE NEW ENGLAND AREA. USING THE RESULTS OF THIS STUDY AND OTHER WORK IN THE WHITE MOUNTAINS, CONCLUSIONS ABOUT THE EFFECTS OF THE WHITE MOUNTAIN NATIONAL FOREST TIMBER MANAGEMENT PROGRAM ARE FORMULATED.

AVAILABILITY: REGIONAL WATER QUALIST, FOREST SERVICE, 633 WEST WISCONSIN AVE., MILWAUKEE, WI 53203

IRIS ACCESSION NUMBER: EW004319

PUBLICATION DATE: SEP 78

TITLE: PERMANENT LOGGING ROADS FOR BETTER WOODLOT MANAGEMENT.

PERSONAL AUTHOR: HAUSSMAN, RICHARD F.; PRUETT, EMERSON W.

DESCRIPTOR: *CONSTRUCTION; EROSION; FORESTRY; *GUIDELINES; MAINTENANCE; *MANAGEMENT; *OPERATIONS (LOGGING); PLANNING; *ROADS; TRANSPORTATION; WATER POLLUTION CONTROL; *WOODLOTS

DESCRIPTIVE NOTE: 43P.

ABSTRACT: THIS GUIDE DESCRIBES THE PROPER CONSTRUCTION AND MAINTENANCE OF A TRANSPORTATION SYSTEM ON A TYPICAL WOODLOT. IT APPLIES TO SITUATIONS MOST COMMONLY ENCOUNTERED IN THE NORTHEASTERN UNITED STATES AND PRINCIPLES FOR A GENERALLY APPLICABLE TYPE OF LOW-COST, LOW SPEED ROAD. DISCUSSED ARE TOPOGRAPHY, SOILS CLIMATE, AND OTHER FACTORS WHICH PREVAIL IN DIFFERENT PARTS OF THE NORTHEAST.

AVAILABILITY: U.S. DEPT. OF AGRICULTURE, FOREST SERVICE, NORTHEASTERN AREA, BROOMALL, PA 19008

IRIS ACCESSION NUMBER: EW004320

PUBLICATION DATE: 73

TITLE: EROSION CONTROL ON LOGGING ROADS IN THE APPALACHIANS.

PERSONAL AUTHOR: KOCHENDERFER, JAMES N.

DESCRIPTOR: *APPALACHIAN MOUNTAINS; CONSTRUCTION; DESIGN; *EROSION; MAINTENANCE; MANAGEMENT; *NONPOINT SOURCE POLLUTION; *OPERATIONS (LOGGING); *ROADS; *WATER POLLUTION CONTROL; WATER QUALITY

DESCRIPTIVE NOTE: 28P. U.S.D.A. FOREST SERVICE RESEARCH PAPER NE-158

ABSTRACT: PRACTICAL METHODS OF CONTROLLING EROSION ON LOGGING ROADS ARE SUMMARIZED THROUGH THE DIFFERENT STAGES: PLANNING, LOCATION, DRAINAGE, MAINTENANCE, AND CARE AFTER LOGGING. THE MATERIAL WAS DERIVED FROM EXISTING LITERATURE, ROAD LORE, CONTACT WITH EXPERIENCED LAND MANAGERS, AND THE AUTHOR'S PERSONAL EXPERIENCE.

AVAILABILITY: NORTHEASTERN FOREST EXPERIMENT STATION, UPPER DARBY, PA 19083

IRIS ACCESSION NUMBER: EW004321

PUBLICATION DATE: 79

TITLE: INTENSIVE SITE PREPARATION AND SEDIMENT LOSSES ON STEEP WATER SHEDS IN THE GULF COASTAL PLAIN.

PERSONAL AUTHOR: BEASLEY, R. S.

DESCRIPTOR: *ENVIRONMENTAL RESEARCH; EROSION; FORESTRY; *HYDROLOGY; MANAGEMENT; *MISSISSIPPI; *NONPOINT SOURCE POLLUTION; OPERATIONS (LOGGING); RUNOFF; *SEDIMENTATION; *SITE PREPARATION; *WATER QUALITY; *WATERSHEDS

DESCRIPTIVE NOTE: 7P.

ABSTRACT: THIS STUDY WAS CONDUCTED DURING THE 1976 AND 1977 WATER-YEARS ON THREE SMALL WATER SHEDS ON STEEP TERRAIN IN NORTHERN MISSISSIPPI. MEASURED WERE THE HYDROLOGIC EFFECTS OF CHOPPING, SHEARING AND WINDROWING, AND BEDDING ON CONTOUR. AFTER SITE PREPARATION, THE TREATED WATERSHEDS WERE FERTILIZED, LIMED, SOWN WITH CLOVER, AND PLANTED WITH LOBLOLLY PINE SEEDLINGS. SEDIMENT LOSSES FROM THE THREE TREATMENTS WERE COMPARED AND RECOVERY TRENDS WERE EVALUATED.

AVAILABILITY: SOIL SCIENCE SOCIETY OF AMERICA JOURNAL, V. 43 NO. 2, 677 SOUTH SEGOE RD., MADISON, WISCONSIN 53711.

IRIS ACCESSION NUMBER: EW004323

PUBLICATION DATE: AUG 78

TITLE: FORESTRY 8 NATURAL RESOURCES: CRITERIA FOR EVALUATING FORESTRY ACTIVITIES IN RELATION TO WATER QUALITY MANAGEMENT.

PERSONAL AUTHOR: POPE, P.E.

DESCRIPTOR: CLEARCUTTING; EROSION; FORESTRY; *MANAGEMENT; *NONPOINT SOURCE POLLUTION; NUTRIENTS; OPERATIONS (LOGGING); PESTICIDES; ROADS; SEDIMENTATION; *SILVICULTURE; *STANDARDS; 208 PLANS; *WATER POLLUTION CONTROL; *WATER QUALITY

DESCRIPTIVE NOTE: 5P.

ABSTRACT: THIS BULLETIN PRESENTS CRITERIA FOR EVALUATING FORESTRY ACTIVITIES IN RELATION TO WATER QUALITY MANAGEMENT. SILVICULTURAL ACTIVITIES THAT PRODUCE POLLUTANTS ARE IDENTIFIED AND THE EFFECTS ON THE FOREST ECOSYSTEM OF THE FIVE MOST IMPORTANT POLLUTANTS ARE DETAILED. NON-CHEMICAL FORMS OF POLLUTION THAT RESULT FROM SILVICULTURAL ACTIVITIES, AND SOIL AND VEGETATION DISTURBANCES ARE DISCUSSED. BEST MANAGEMENT PRACTICES FOR SILVICULTURAL OPERATIONS, CLASSIFIED AS EITHER PREVENTION OR REDUCTION MEASURES ARE DESCRIBED.

AVAILABILITY: PURDUE UNIVERSITY, COOPERATIVE EXTENSION SERVICE, WEST LAFAYETTE, INDIANA 47907

IRIS ACCESSION NUMBER: EW004324

PUBLICATION DATE: AUG 78

TITLE: FORESTRY AND NATURAL RESOURCES: FORESTRY AND WATER QUALITY; POLLUTION CONTROL PRACTICES.

PERSONAL AUTHOR: POPE, P. E.

DESCRIPTOR: *EROSION; *FORESTRY; GUIDELINES; *MANAGEMENT; *NONPOINT SOURCE POLLUTION; NUTRIENTS; OPERATIONS (LOGGING); PESTICIDES; *SILVICULTURE; THERMAL POLLUTION; *WATER POLLUTION CONTROL; *WATER QUALITY

DESCRIPTIVE NOTE: 6P.

ABSTRACT: THIS BULLETIN DESCRIBES PREVENTION AND REDUCTIONS MEASURES TO CONTROL WATER POLLUTION RESULTING FROM FORESTRY ACTIVITIES. LISTED ARE POLLUTION PREVENTION PRACTICES AND REDUCTION PRACTICES RELATING TO WATER QUALITY OR WATER POLLUTION. TOPIC AREAS DISCUSSED INCLUDE THE CONTROL OF NUTRIENT POLLUTION THROUGH TREATMENT OF FOREST RESIDUES, PESTICIDE PRACTICES, AND CONTROL OF THERMAL POLLUTIONS.

PRESENTED IN TABULAR FORM ARE THE PRINCIPLE TYPES OF REDUCTION PRACTICES FOR EROSION CONTROL.

AVAILABILITY: PURDUE UNIVERSITY, COOPERATIVE EXTENSION SERVICE, WEST LAFAYETTE, INDIANA 47907

IRIS ACCESSION NUMBER: EW004327

PUBLICATION DATE: 75

TITLE: AN INVESTIGATION OF SOIL CHARACTERISTICS AND EROSION RATES ON CALIFORNIA FOREST LANDS.

DESCRIPTOR: *CALIFORNIA; *ENVIRONMENTAL RESEARCH; *EROSION; *FORESTRY; *MEASUREMENT TECHNIQUES; MULTIDISCIPLINARY APPROACH; *NONPOINT SOURCE POLLUTION; RATING SCALES; SEDIMENTATION; *SOIL CHARACTERISTICS; *SOIL CONSERVATION; WATER QUALITY

DESCRIPTIVE NOTE: 105P.

ABSTRACT: THIS MULTIDISCIPLINARY STUDY PROVIDES BASIC INFORMATION ON SOIL CHARACTERISTICS AND EROSION RATES PERTINENT TO MONITORING SOIL LOSS AND THE DEVELOPMENT OF SOIL CONSERVATION STANDARDS ON CALIFORNIA FOREST LANDS. THE STUDY REVIEWED CURRENT LITERATURE AND ANALYZED EXISTING METHODS OF RATING OR ESTIMATING EROSION HAZARDS AND PREDICTING SEDIMENT YIELD, CONDUCTED A PRELIMINARY EVALUATION OF THE EFFECTIVENESS OF EROSION HAZARD RATING SYSTEMS INCORPORATED INTO THE FOREST PRACTICE RULES, AND DETERMINED AND ANALYZED EXISTING GAPS IN KNOWLEDGE OF PRACTICES FOR ESTIMATING AND PREDICTING EROSION HAZARDS AND SEDIMENTATION ON CALIFORNIA FOREST LANDS.

AVAILABILITY: DEPT OF FORESTRY, 1416 NINTH STREET, SACRAMENTO CA 95814

INSTITUTION NAME: STATE OF CALIFORNIA.

IRIS ACCESSION NUMBER: EW004334

PUBLICATION DATE: 71

TITLE: SOIL EROSION AND SEDIMENTATION CONTROL GUIDELINES FOR FORESTRY.

DESCRIPTOR: CONSTRUCTION; *EROSION; *FORESTRY; *GUIDELINES; *NONPOINT SOURCE POLLUTION; *OPERATIONS (LOGGING); *ROADS; SEDIMENTATION; SOIL CONSERVATION; *STATEWIDE PLANNING; *WATER POLLUTION CONTROL; WATER QUALITY

DESCRIPTIVE NOTE: 26P.

ABSTRACT: THIS BOOKLET, PREPARED TO ASSIST LOGGING OPERATORS IN COMPLYING WITH THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL RESOURCES RULES AND REGULATIONS UNDER THE CLEAN STREAMS LAW, PROVIDES INFORMATION FROM LAND MANAGERS ON THE PREVENTION OF ACCELERATED SOIL EROSION AND SEDIMENTATION DURING AND AFTER TIMBER HARVESTING OPERATIONS. THE DOCUMENT IS DIVIDED INTO TWO PARTS. PART ONE PROVIDES GENERAL INFORMATION ABOUT THE CLEAN STREAMS LAW, EMPHASIZING PERMIT REQUIREMENTS AND PERMIT APPLICATION PROCEDURES. PART TWO OUTLINES SPECIFICATIONS AND GUIDELINES TO BE USED IN CONJUNCTION WITH HAUL ROADS, SKID ROADS AND TRAILS, LANDING AND YARDING AREAS AND, EQUIPMENT AND MACHINERY. AN APPENDIX CONTAINING 12 ILLUSTRATIONS AND CHARTS CONCLUDES THIS PUBLICATION.

AVAILABILITY: PENNSYLVANINA DEPARTMENT OF ENVIRONMENTAL RESOURCES, ROOM 114, EVANGELICAL PRESS BUILDING, HARRISBURG, PA 17120

INSTITUTION NAME: PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL RESOURCES.

IRIS ACCESSION NUMBER: EW004336

PUBLICATION DATE: NOV 79

TITLE: ATTACK PUMP NOISE FOUR WAYS PART ONE.

PERSONAL AUTHOR: FRENCH, WILLIAM W.

DESCRIPTOR: *PUMPS; *MAINTENANCE; *HYDRAULICS; ENGINEERING; *EQUIPMENT; *NOISE

DESCRIPTIVE NOTE: 52-54P.

ABSTRACT: THIS ARTICLE IS THE FIRST IN A SERIES ON THE SELECTION INSTALLATION, AND MAINTENANCE OF PUMPS TO REDUCE EXCESSIVE NOISE AND VIBRATION.

AVAILABILITY: WATER AND SEWAGE WORKS; V126 N11

IRIS ACCESSION NUMBER: EW004338

PUBLICATION DATE: NOV 79

TITLE: AMPEROMETRIC MEMBRANE ELECTRODE FOR MEASUREMENT OF OZONE IN WATER.

PERSONAL AUTHOR: STANLEY, JOHN H.; JOHNSON, J. DONALD

DESCRIPTOR: *CHEMICAL ANALYSIS; CHEMICAL REACTIONS; *DISINFECTION; ELECTROLYSIS; INSTRUMENTATION; LABORATORY PROCEDURES; *MEASUREMENT; PUBLIC HEALTH; *WATER TREATMENT

DESCRIPTIVE NOTE: 2144-2147P.

ABSTRACT: DESCRIBED IS A NEW AMPEROMETRIC MEMBRANE ELECTRODE DEVELOPED FOR THE MEASUREMENT OF OZONE IN WATER, OPERATIONAL CHARACTERISTICS OF THE MEMBRANE ELECTRODE AND POTENTIAL INTERFERENCES IN WATER TREATMENT ARE EXAMINED.

AVAILABILITY: ANALYTICAL CHEMISTRY; V51 N13

IRIS ACCESSION NUMBER: EW004339

PUBLICATION DATE: NOV 79

TITLE: COPPER ION-SELECTIVE ELECTRODE FOR DETERMINATION OF INORGANIC COPPER SPECIES IN FRESH WATERS.

PERSONAL AUTHOR: STELLA, RENATO; GANZERLI-VALENTINI, M.T.

DESCRIPTOR: *CHEMICAL ANALYSIS; CHEMICAL REACTIONS; *INSTRUMENTATION; *LABORATROY PROCEDURES; *MEASUREMENT; METALS; TOXIC MATERIALS; *WATER QUALITY; *COPPER; *TRACE METALS

DESCRIPTIVE NOTE: 2148-2151P.

ABSTRACT: DESCRIBED IS A METHOD FOR DETERMINING THE CONCENTRATION OF SOLUBLE COPPER INORGAMIC SPECIES IN FRESH WATER. THIS PROCEDURE WAS USED TO STUDY COPPER BEHAVIOR IN WEAKLY BASIC AND HYDROCARBONATE SOLUTIONS IN A CONCENTRATION RANGE SIMULATING NATURAL SYSTEMS.

AVAILABILITY: ANALYTICAL CHEMISTRY; V51 N13

IRIS ACCESSION NUMBER: EW004340

PUBLICATION DATE: NOV 79

TITLE: THIN LAYER CHROMATOGRAPHIC SEPARATION OF PESTICIDES, DECACHLOROBIPHENYL, AND NUCLEOTIDES WITH MICELLAR SOLUTIONS.

PERSONAL AUTHOR: ARMSTRONG, DANIEL W.; TERRILL, ROBERT G.

DESCRIPTOR: *CHEMICAL ANALYSIS; *CHROMATOGRAPHY; *INSTRUMENTATION; LABORATORY PROCEDURES; *MICELLES; MEASURMENT; *PESTICIDES

DESCRIPTIVE NOTE: 2160-2163P.

ABSTRACT: DESCRIBED IS THE USE OF MICELLAR SOLUTIONS AS MOBILE PHASES IN THE THIN LAYER CHROMATOGRAPHY OF PESTICIDES. THE POSSIBLE ADVANTAGES OF MICELLAR SOLUTIONS OVER TRADITIONAL PURE AND MIXED SOLVENT SYSTEMS ARE IDENTIFIED. POSSIBLE MECHANISMS TO ACCOUNT FOR THE OBSERVED CHROMATOGRAPHIC BEHAVIOR ARE DISCUSSED.

AVAILABILITY: ANALYTICAL CHEMISTRY: V51 N13

IRIS ACCESSION NUMBER: EW004341

PUBLICATION DATE: NOV 79

TITLE: INTERACTIVE EFFECTS OF TEMPERATRUE, SALT CONCENTRATION, AND PH ON HEAD SPACE ANALYSIS FOR ISOLATING VOLATILE TRACE ORGANICS IN AQUEOUS ENVIRONMENTAL SAMPLES.

PERSONAL AUTHOR: FRIANT, STEPHEN L.; SUFFET, IRWIN H.

DESCRIPTOR: *CHEMICAL ANALYSIS; EQUILIBRIUM; *INSTRUMENTATION; LABORATORY PROCEDURES; *MEASUREMENT;

ORGANIC CHEMISTRY; THERMODYNAMICS; *ORGANIC COMPOUNDS; WATER POLLUTION CONTROL; *WATER QUALITY

DESCRIPTIVE NOTE: 2167-2172P.

ABSTRACT: PRESENTED IS A SYSTEMATIC APPROACH FOR THE ISOLATION AND QUANTIFICATION OF VOLATILE TRACE ORGANICS FROM AQUEOUS SOLUTIONS BY HEADSPACE ANALYSIS. FUNDAMENTAL INFORMATION IS OBTAINED ON THE PARTITION PROCESS FOR A MULTIPLE SOLUTE SYSTEM CONSISTING OF MODEL COMPOUNDS UNDER VARYING AQUEOUS CONDITIONS AS PH, TEMPERATURE, AND SALT ADDITION.

AVAILABILITY: ANALYTICAL CHEMISTRY; V51 N13

IRIS ACCESSION NUMBER: EW004342

PUBLICATION DATE: NOV 79

TITLE: INTERLABORATORY STUDY OF THE DETERMINATION OF POLYCHLORINATED BIPHENYLS IN A PAPER MILL EFFLUENT.

PERSONAL AUTHOR: DELFINO, JOSEPH J.; EASTY, DWIGHT B.

DESCRIPTOR: *CHEMICAL ANALYSIS; INSTRUMENTATION; *LABORATORY PROCEDURES; MEASUREMENT; *POLYCHLORINATED BIPHENYLS; *AROCLOR 1242; *PCB'S; ORGANIC CHEMISTRY; *PAPER INDUSTRY; *WASTEWATER; WATER POLLUTION CONTROL; WATER QUALITY

DESCRIPTIVE NOTE: 2235-2239P.

ABSTRACT: PRESENTED ARE THE RESULTS OF A TWO PHASE, INTERLABORATORY STUDY DESIGNED TO: (1) DETERMINE THE COMPARABILITY OF PCB METHODOLOGIES IN USE IN EACH LABORATORY AND ASSESS THE ABILITY OF THE ANALYSTS TO PERFORM THE BASIC OPERATIONS, AND (2) APPLY THE MODIFIED METHOD TO THE DETERMINATION OF AROCLOR 1242 IN PAPER MILL EFFLUENT.

AVAILABILITY: ANALYTICAL CHEMISTRY; V51 M13

IRIS ACCESSION NUMBER: EW004343

PUBLICATION DATE: 78

TITLE: ESTIMATING THE HAZARD OF CHEMICAL SUBSTANCES TO AQUATIC LIFE.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; AQUATIC ENVIRONMENT; *BIOLOGY; *CHEMICAL ANALYSIS; *ENVIRONMENTAL INFLUENCES; ECOLOGY; *LABORATORY TECHNIQUES; LEGISLATION; *MEASUREMENT; PUBLIC HEALTH; *STANDARDS; *TOXICOLOGY; *TOXIC SUBSTANCES; *WATER QUALITY; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 277P.

ABSTRACT: THIS DOCUMENT CONTAINS THE TRANSCRIPTS OF PRESENTATIONS AND DISCUSSIONS FROM A WORKSHOP ON THE HAZARDS OF CHEMICAL SUBSTANCES TO AQUATIC LIFE. THE CHAPTERS OUTLINE ACCEPTED TECHNIQUES FOR ESTIMATING TOXIC EFFECTS OF CHEMICAL

SUBSTANCES ON AQUATIC SPECIES AND CURRENT METHODS USED TO MEASURE AND PROJECT ENVIRONMENTAL CONCENTRATION AND FATE OF CHEMICALS. THE FINAL SECTIONS PRESENT SEVERAL PROGRAMS FOR THE DEVELOPMENT OF A HAZARD ASSESSMENT SCHEME.

AVAILABILITY: AMERICAN SOCIETY FOR TESTING AND MATERIALS, 1916 RACE STREET, PHILADELPHIA, PA 19103 PRICE: $19.50

INSTITUTION NAME: AMERICAN SOCIETY FOR TESTING AND MATERIALS.

IRIS ACCESSION NUMBER: EW004344

PUBLICATION DATE: 78

TITLE: BIOLOGICAL DATA IN WATER POLLUTION ASSESSMENT: QUANTITATIVE AND STATISTICAL ANALYSES.

DESCRIPTOR: *AQUATIC ENVIRONMENT; *BIOLOGY; *DATA ANALYSIS; ENVIRONMENTAL INFLUENCES; ECOLOGY; MATHEMATICS; *RESEARCH METHODOLOGY; *STATISTICAL METHODS; WATER QUALITY; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 185P.

ABSTRACT: THIS PUBLICATION CONTAINS THE PAPERS PRESENTED AT A SYMPOSIUM IN 1977 ON BIOLOGICAL DATA IN WATER POLLUTION ASSESSMENT. THE PAPERS SHOW A DIVERSITY OF APPROACHES AND APPLICATIONS INCLUDING: THE USE OF MULTIVARIATE ANALYSIS; RANKING METHODS; DIVERSITY INDICES; FACTOR ANALYSES; STUDY DESIGN; AND SPECIFIC TECHNIQUES TO ANALYZE A PARTICULAR KIND OF DATA. EACH PAPER CONTAINS AN ABSTRACT AND AN EXTENSIVE LIST OF REFERENCES.

AVAILABILITY: AMERICAN SOCIETY FOR TESTING AND MATERIALS, 1916 RACE STREET, PHILADELPHIA, PA 19103 PRICE: $17.50

INSTITUTION NAME: AMERICAN SOCIETY FOR TESTING AND MATERIALS.

IRIS ACCESSION NUMBER: EW004354

PUBLICATION DATE: SEP 79

TITLE: APPLICABILITY OF PYROGYSIS/GAS-LIQUID CHROMATOGRAPHY FOR THE IDENTIFICATION OF BACTERIA IN SEWAGE TREATMENT PLANT EFFLUENT.

PERSONAL AUTHOR: SYMULESKI, RICHARD A.

DESCRIPTOR: *CHEMICAL ANALYSIS; *CHROMATOGRAPHY; COMPUTERS; *ENVIRONMENTAL RESEARCH; *INSTRUMENTATION; LABORATROY TECHNIQUES; *MEASUREMENT TECHNIQUES; *WASTEWATER TREATMENT; WATER QUALITY; *MICROBIOLOGY; *WATER POLLUTION CONTROL; SEWAGE TREATMENT

DESCRIPTIVE NOTE: 1124-1130P.

ABSTRACT: PYROLYSIS/GAS-LIQUID CHROMATOGRAPHY (PGLC) IS INVESTIGATED AS A TECHNIQUE TO IDENTIFY BACTERIA IN SEWAGE TREATMENT PLANT EFFLUENT. THIS RESEARCH CENTERED ON IDENTIFYING SAMPLES OF WET, FILTERED, CELLULAR MATERIAL. CURRENT ANALYSES HAVE YIELDED RELIABLE, BUT LARGELY QUANTITATIVE RESULTS. A COMPUTER PROGRAM WAS DEVELOPED TO IDENTIFY BACTERIA ANALYZED BY COMPARING CHROMATOGRAMS.

AVAILABILITY: ENVIRONMENTAL SCIENCE & TECHNOLOGY; V13 N9

IRIS ACCESSION NUMBER: EW005288

PUBLICATION DATE: 76

TITLE: PESTICIDES BOON OR BANE?

PERSONAL AUTHOR: GREEN, M.B.

DESCRIPTOR: *AGRICULTURE; COST-BENEFIT ANALYSIS; DEVELOPING NATIONS; ECOLOGY; ECONOMIC FACTORS; *ENVIRONMENT; *INSTRUCTIONAL MATERIALS; NATIONAL POLICY; *PESTICIDES; POLLUTION; *POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: 111P.

ABSTRACT: THIS BOOK EXAMINES BOTH THE BENEFITS AND RISKS OF PESTICIDES AND COMPARES THEM AGAINST EACH OTHER. THE VALUE OF PESTICIDES TO THE U.S. NATIONAL ECONOMY AND WELL-BEING IS MEASURED AGAINST THE RISKS OF POSSIBLE HARM TO THE ENVIRONMENT. THE AUTHOR ADVOCATES THE USE OF COST BENEFIT ANALYSIS TO DETERMINE WHAT RESTRICTIONS OR PROHIBITIONS SHOULD BE PLACED ON THE USE OF A PARTICULAR PESTICIDE. HE ALSO POINTS OUT THAT THE RESULT OF A COST BENEFIT ANALYSIS FOR A PARTICULAR PESTICIDE IN ONE COUNTRY MAY NOT BE THE SAME AS THAT IN ANOTHER COUNTRY, AND THAT THE FACTORS OF THE EQUATION MIGHT BE TOTALLY DIFFERENT IF THE FOOD AND HEALTH NEEDS OF THE DEVELOPING COUNTRIES ARE CONSIDERED. VIEW POINTS OF THE MANUFACTURER, FARMER, FOOD PROCESSOR, CONSUMER, PUBLIC, AND GOVERNMENT ARE PRESENTED ALONG WITH A DISCUSSION OF ALTERNATIVES TO PESTICIDE USE.

AVAILABILITY: WESTVIEW PRESS, 1898 FLATIRON CT., BOULDER, CO 80301 ($12.75)

IRIS ACCESSION NUMBER: EW005289

PUBLICATION DATE: 72

TITLE: FATE OF PESTICIDES IN ENVIRONMENT. VOL. VI.

PERSONAL AUTHOR: (EDITOR) TAHORI, A. S.

DESCRIPTOR: BIOCHEMISTRY; *ECOLOGY; *ENVIRONMENT; *ENVIRONMENTAL RESEARCH; HERBICIDES; NATURAL RESOURCES; *ORGANIC CHEMISTRY; PLANT GROWTH; *PESTICIDES; SOIL SCIENCE

DESCRIPTIVE NOTE: 572P.

ABSTRACT: THIS BOOK PRESENTS THE PROCEEDINGS OF THE SECOND INTERNATIONAL IUPAC CONGRESS OF PESTICIDE CHEMISTRY. THE TEXT DISCUSSES THE RESEARCH WHICH HAS BEEN DONE IN THE PRODUCTION OF SAFER PESTICIDES. TOPICS INCLUDED ARE: THE

FATE OF PESTICIDES IN SOIL; CHEMISTRY AND METABOLISM OF TERMINAL RESIDUES OF ORGANOCHLORINE COMPOUNDS, ORGANOPHOSPHORUS COMPOUNDS, CARBAMATES, AND FUNGICIDES; RADIOACTIVE TRACERS IN FOOD CHAIN STUDIES; AND CHEMICAL AND TOXICOLOGICAL DATA ON RESIDUE TOLERANCES IN MAMMALS.

AVAILABILITY: GORDON AND BREACH SCIENCE PUB., 12 BLOOMSBURY WAY, LONDON, WC 1, ENGLAND

IRIS ACCESSION NUMBER: EW005290

PUBLICATION DATE: 75

TITLE: PYRETHRUM FLOWERS.

PERSONAL AUTHOR: (EDITOR) NELSON, R. H.

DESCRIPTOR: *AGRICULTURAL PRODUCTION; *BIOLOGICAL INFLUENCES; BOTANY; CHEMICAL REACTIONS; CHEMISTRY; ENVIRONMENTAL RESEARCH; FIELD CROPS; *HORTICULTURE; *INSECTICIDES; *INSTRUCTIONAL MATERIALS; *PESTICIDES; PLANT GROWTH; POST SECONDARY EDUCATION; *PYRETHRUM

DESCRIPTIVE NOTE: 149P.

ABSTRACT: THIS BOOK PROVIDES INFORMATION ON THE INSECTICIDAL PLANT PYRETHRUM. THE FIVE SECTIONS OF THE TEXT DEAL WITH SOURCES AND USES, CHEMISTRY, EVALUATION, EXTRACT, AND CULTURE OF PYRETHRUM. THE LITERATURE REFERENCES INCLUDE TITLES IN ADDITION TO THOSE CITED IN THE BOOK.

AVAILABILITY: MCLAUGHLIN GORMLEY KING CO., 8810 TENTH AVE NORTH, MINNEAPOLIS, MN 55427

IRIS ACCESSION NUMBER: EW005291

PUBLICATION DATE: AUG 77

TITLE: IDENTIFICATION AND SPECIFICATION OF INPUTS FOR BENEFIT-COST MODELING OF PESTICIDE USE.

PERSONAL AUTHOR: EPP, DONALD; AND OTHERS.

DESCRIPTOR: *AGRICULTRUAL PRODUCTION; BIBLIOGRAPHIES; *COST EFFECTIVENESS; ECONOMICS; ENVIRONMENTAL CRITERIA; *ENVIRONMENTAL INFLUENCES; *NATURAL RESOURCES; *PESTICIDES; PUBLIC HEALTH

DESCRIPTIVE NOTE: 144P.

ABSTRACT: THIS REPORT CONTAINS INFORMATION TO HELP DEFINE, DELINEATE, AND IMPROVE DATA INPUTS INTO BENEFIT-COST ANALYSES OF PESTICIDE USE. SIX MAJOR AREAS ARE DISCUSSED REGARDING THE EFFECTS OF A PESTICIDE-USE DECISION. A GENERAL OVERVIEW OF THE VARIABLES IS PRESENTED IN THE FIRST CHAPTER. THE REMAINING CHAPTERS CONSIDER THE BENEFIT-COST CONSIDERATIONS FOR: ECONOMIC PRODUCTION; HUMAN HEALTH; ENVIRONMENTAL IMPACTS; AESTHETIC IMPACTS AND DISTRIBUTION EFFECTS. A BIBLIOGRAPHY IS PRESENTED WITH EACH MAJOR SECTION.

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 (PRICE: $5.25).

IRIS ACCESSION NUMBER: EW005292

PUBLICATION DATE: 76

TITLE: THE FUTRUE FOR INSECTICIDES: NEEDS AND PROSPECTS.

PERSONAL AUTHOR: METCALF, ROBERT L.; MCKELVEY, JOHN J., JR.

DESCRIPTOR: *AGRICULTURE; *CHEMISTRY; *ENVIRONMENT; *INSECTICIDES; *PEST CONTROL; *PESTICIDES; *POLLUTION; PUBLIC HEALTH; TOXICITY

DESCRIPTIVE NOTE: 524P.

ABSTRACT: THIS BOOK PRESENTS AN UPDATED ASSESSMENT OF THE PAST, PRESENT, AND FUTURE OF THE CHEMICAL APPROACH TO INSECT CONTROL. INCLUDED ARE 20 PAPERS ORGANIZED UNDER SIX HEADINGS. THE FIRST HEADING, INTERNATIONAL ASPECTS IN FOOD AND HEALTH, CONTAINS PAPERS ON INSECTICIDES IN FOOD PRODUCTION AND IN HUMAN HEALTH. THE SECOND PART DISCUSSES RESISTANCE TO PESTICIDES, ENVIRONMENTAL POLLUTION BY INSECTICIDES, AND INSECTICIDE TOXICITY. THE THIRD PART PRESENTS PROSPECTS FOR IMPROVEMENT OF SUCH PRESENT DAY INSECTICIDES AS PYRETHOIDS, ORGANOCHLORINE INSECTICIDES, ORGANOPHOSPHORUS INSECTICIDES, AND CARBONATES. THE FOURTH PART IS ON NOVEL CHEMICALS AND TARGETS SUCH AS HORMONE MIMICS AND PHEROMONES. THE FIFTH PART DISCUSSES HISTORICAL ASPECTS OF INSECTICIDE DEVELOPMENT AND INTEGRATED PEST MANAGEMENT. FINALLY, THE SIXTH PART GIVES A SUMMARY AND RECOMMENDATIONS.

AVAILABILITY: JOHN WILEY & SONS PUB., ONE WILEY DR., SOMERSET, NJ 08873 ($23.75)

IRIS ACCESSION NUMBER: EW005293

PUBLICATION DATE: 77

TITLE: ENVIRONMENT AND MAN, VOL. 6. THE CHEMICAL ENVIRONMENT.

PERSONAL AUTHOR: LENIHAN, JOHN; FLETCHER, WILLIAM W.

DESCRIPTOR: AIR POLLUTION CONTROL; *ARSENIC; ARSENICALS; ASBESTOS; *CHEMISTRY; *ENVIRONMENT; ECOLOGY; *INSTRUCTIONAL MATERIALS; *LEAD; *POST SECONDARY EDUCATION; POISON; POLLUTION; *TOXINS; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 163P.

ABSTRACT: IN THIS VOLUME 6 AUTHORS DISCUSS HAZARDS ARISING FROM THE CHEMICAL ENVIRONMENT, REVIEWING HISTORICAL DEVELOPMENT, HARMFUL EFFECTS, CONTROL MEASURES, AND FUTURE PROSPECTS. THE FIRST CHAPTER IS ON NATURAL CYCLES OF THE ELEMENTS AND THEIR PERTURBATION BY MAN. IT COVERS SUCH TOPICS AS RESIDENCE TIMES IN THE ATMOSPHERE, WATER, AND SOIL; THE CARBON CYCLE; THE OXYGEN CYCLE; THE NITROGEN

CYCLE; THE SULFER CYCLE; HEAVY METALS; AND THE PHOSPHORUS CYCLE. THE SECOND CHAPTER GIVES A HISTORY OF MERCURY AS A POLLUTANT, AND DISCUSSES THE TOXICOLOGICAL AND PHYSIOLOGICAL ASPECTS OF ORGANIC MERCURY COMPOUNDS IN FISH AND OTHER FOODS. CHAPTER THREE PRESENTS A HISTORY OF LEAD POISONING, AND COVERS SOURCES OF LEAD IN AIR, WATER, AND FOOD. CHAPTER FOUR COVERS ALL ASPECTS OF ARSENIC POISONING IN THE ENVIRONMENT, FOOD, AND POISONING DUE TO INDUSTRIAL USES. THE OCCURRENCE, METABOLISM, AND TOXICITY OF AFLATOXINS ARE THE TOPICS OF THE FIFTH CHAPTER. CHAPTER SIX CONSIDERS ASBESTOS.

AVAILABILITY: ACADEMIC PRESS, INC., 111 FIFTH AVE., NEW YORK, NY 10003 ($14.50)

IRIS ACCESSION NUMBER: EW005294

PUBLICATION DATE: 79

TITLE: POST-SECONDARY ENVIRONMENTAL EDUCATION: PESTICIDES AND TOXICOLOGY PROGRAMS.

DESCRIPTOR: ENVIRONMENTAL RESEARCH; *EDUCATIONAL PROGRAMS; *PESTICIDES; POLLUTION; *POST SECONDARY EDUCATION; PUBLIC HEALTH; *PROGRAM DESCRIPTIONS; *TRAINING; *TOXICOLOGY

DESCRIPTIVE NOTE: 96P.

ABSTRACT: THIS PUBLICATION IS PART OF A 12 VOLUME DIRECTORY RESULTING FROM PHASE III OF THE NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE WHICH WAS CONDUCTED BY THE NATIONAL FIELD RESEARCH CENTER INC., UNDER THE GUIDANCE OF THE U.S. ENVIRONMENTAL PROTECTION AGENCY. THIS VOLUME INCLUDES ALL IDENTIFIED ENVIRONMENTAL/ENERGY POST-SECONDARY EDUCATION AND/OR TRAINING PROGRAMS WHICH ARE SPECIFICALLY RELATED TO PESTICIDES AND TOXICOLOGY. THE LISTING INCLUDES A TOTAL OF 135 PROGRAMS FROM 44 STATES, WHICH EACH INVOLVE AT LEAST 5 PESTICIDE AND TOXICOLOGY RELATED COURSES IN THEIR REQUIREMENTS. THE PRIMARY PURPOSE IS TO POINT OUT THE WAY THAT FURTHER INFORMATION ON THESE FORMS OF POLLUTION CAN BE OBTAINED.

AVAILABILITY: GRAPHIC PRINTING/NATIONAL COPY CENTER, PO BOX 986, IOWA CITY, IA 52240 PRICE $6.50 PER COPY/$55.00 FOR A SET OF 12.

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER, INC.

IRIS ACCESSION NUMBER: EW005295

PUBLICATION DATE: 79

TITLE: DE-BUGGING THE PESTICIDE LAW.

PERSONAL AUTHOR: DOUTT, RICHARD L.

DESCRIPTOR: *ADMINISTRATIVE PROBLEMS; AGENCIES; CITIZEN PARTICIPATION; ENVIRONMENT; *FEDERAL GOVERNMENT; *LAWS; *ENVIRONMENTAL PROTECTION AGENCY; *NONPOINT SOURCE POLLUTION; ORGANIZATIONS (GROUPS); *PESTICIDES; PUBLIC HEALTH; *REGULATIONS.

DESCRIPTIVE NOTE: 32-35P.

ABSTRACT: DETAILED IS THE ENVIRONMENTAL PROTECTION AGENCY'S RECORD OF PESTICIDE ADMINISTRATION SINCE 1970. DESCRIBED ARE EPA'S RECORD OF NON-PERFORMANCE, RELIANCE ON FRAUDULENT DATA TO ESTABLISH RESIDUE TOLERANCES, AND THE FAILURE OF THE LAW TO PROVIDE FOR CITIZEN PARTICIPATION ON PESTICIDE REGISTRATION. FEATURES OF AN ENVIRONMENTALLY ACCEPTABLE PESTICIDE LAW ARE INCLUDED.

AVAILABILITY: ENVIRONMENT; V21 N10

IRIS ACCESSION NUMBER: EW005296

PUBLICATION DATE: JUL 79

TITLE: INSTITUTIONAL CONSTRAINTS ON LAND MANAGEMENT FOR WATER RESOURCE PROTECTION IN URBAN AND SUBURBAN WATERSHEDS.

PERSONAL AUTHOR: ZIMMERMAN, RAE.

DESCRIPTOR: CITY PLANNING; *CITY PROBLEMS; *COMMUNITCATION; *ENVIRONMENT; GOVERNMENT ROLE; LAND USE; *MANAGEMENT; *NATURAL RESOURCES; PESTICIDES; *PUBLIC POLICY; *PLANNING; *URBAN AREAS; WATER POLLUTION CONTROL; WATER RESOURCES

DESCRIPTIVE NOTE: 88P.

ABSTRACT: THIS REPORT DISCUSSES AN INVESTIGATION OF THE CHANNELS OF COMMUNICATION BETWEEN LAND MANAGERS AND OTHER SECTORS OF GOVERNMENT RESPONSIBLE FOR ENVIRONMENTAL QUALITY. IT EXAMINES THE REASONS FOR FAILURE TO COMMUNICATE, OR TO ESTABLISH THIS LINKAGE. THE REPORT FURTHER INQUIRES INTO THE POSSIBILITY OF NETWORKING EXISTING AGENCIES TO EMPLOY EXISTING AGENCY AUTHORITY, ESPECIALLY THAT OF LAND MANAGEMENT AGENCIES, TO ACHIEVE MULTIPURPOSE AND SEEMINGLY CONFLICTING GOALS INVOLVING ENVIRONMENTAL QUALITY.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE., OPERATIONS DIVISION, SPRINGFIELD, VA 22161. PRICE: $6.00.

IRIS ACCESSION NUMBER: EW005297

PUBLICATION DATE: 79

TITLE: DISPOSAL OF DILUTE PESTICIDE SOLUTIONS.

DESCRIPTOR: AGRICULTURE; ECONOMICS; EQUIPMENT; *EVALUATION; *MANAGEMENT; *PESTICIDES; *SAFETY; *TOXIC SUBSTANCES; *TECHNOLOGY; *TREATMENT METHODS; *WASTE DISPOSAL; WASTES

DESCRIPTIVE NOTE: 102P.

ABSTRACT: LITERATURE SEARCHES, SITE VISITS, AND INTERVIEWS WERE CONDUCTED TO EVALUATE DISPOSAL METHODS FOR DILUTE PESTICIDE SOLUTIONS GENERATED DURING PESTICIDE APPLICATION EQUIPMENT WASHING OPERATIONS. DISPOSAL METHODS EVALUATED INCLUDED LAND CULTIVATION, SOIL MOUNDS AND PITS, EVAPORATION BASINS, CHEMICAL TREATMENT, CARBON ADSORPTION, ACTIVATED SLUDGE, TRICKLING FILTERS, AND INCINERATION. METHODS WERE

EVALUATED RELATIVE TO ENVIRONMENTAL SAFETY, VERSATILITY, APPLICABILITY, ECONOMICS, AND EFFICIENCY CRITERIA. IT WAS CONCLUDED THAT SOIL MOUNDS COULD BE THE MOST READILY IMPLEMENTABLE DISPOSAL METHOD PRESENTLY AVAILABLE.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, OPERATIONS DIVISION, SPRINGFIELD, VA 22161. PRICE: $6.50.

INSTITUTION NAME: SCS ENGINEERS.

IRIS ACCESSION NUMBER: EW005298

PUBLICATION DATE: AUG 77

TITLE: PESTICIDE ANALYTICAL MANUAL VOLUME 1. METHODS WHICH DETECT MULTIPLE RESIDUES.

DESCRIPTOR: ANALYTICAL TECHNIQUES; *CHEMICAL ANALYSIS; CHROMATOGRAPHY; *FEDERAL GOVERNMENT; *FEEDS; *FOODS; INSTRUMENTATION; *LABORATORY MANUALS; *LABORATORY TECHNIQUES; MEASUREMENT; *PESTICIDES; PESTICIDE TOLERANCES.

DESCRIPTIVE NOTE: 433P.

ABSTRACT: DESCRIBED IN THIS LABORATORY MANUAL ARE METHODS FOR THE ANALYSIS OF PESTICIDE RESIDUES IN FOODS AND FEEDS. PRESENTED ARE DETAILS FOR THE METHODS USED BY THE FOOD AND DRUG ADMINISTRATION TO ENFORCE THE PESTICIDE TOLERANCES SET BY THE ENVIRONMENTAL PROTECTION AGENCY. TOPICS INCLUDE SAMPLE PREPARATION, GAS CHROMATOGRAPHIC OPERATING CONDITIONS, CONFIRMATORY TECHNIQUES, AND TABULATIONS OF THE ANALYTICAL BEHAVIOR OF VARIOUS CHEMICALS THROUGH EACH PROCEDURE.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, OPERATIONS DIVISION, SPRINGFIELD, VA 22161. PRICE: $30.00.

IRIS ACCESSION NUMBER: EW005299

PUBLICATION DATE: AUG 77

TITLE: PESTICIDE ANALYTICAL MANUAL, VOLUME II. METHODS FOR INDIVIDUAL PESTICIDES RESIDUES.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *CHEMICAL ANALYSIS; *FEDERAL GOVERNMENT; FEED INDUSTRY; *FOOD; GOVERNMENT ROLE; *INSTRUMENTATION; *LABORATORY TECHNIQUES; *MANUALS; MEASUREMENT; *PESTICIDES.

DESCRIPTIVE NOTE: 1240P.

ABSTRACT: PRESENTED IN THIS THREE VOLUME SET ARE LABORATORY METHODS FOR THE DETERMINATION OF SINGLE PESTICIDE RESIDUES IN FOODS AND FEEDS. MOST METHODS ARE THOSE PRESENTED BY THE PETITIONER AS PART OF THE ORIGINAL REQUEST FOR EPA REGISTRATION AND TOLERANCE. APPROPRIATE CROSS REFERENCES TO VOLUME I ARE INCLUDED FOR THOSE CHEMICALS RECOVERED BY MULTIPLE RESIDUE PROCEDURES.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE,

OPERATIONS DIVISION, SPRINGFIELD, VA 22161. PRICE: $50.00.

IRIS ACCESSION NUMBER: EW005300

PUBLICATION DATE: APR 73

TITLE: HERBICIDES: AN INTRODUCION TO THE USE AND IMPACT OF SPRAYED CHEMICALS.

PERSONAL AUTHOR: WEBB, WARREN.

DESCRIPTOR: *AUDIOVISUAL AIDS; *CHEMISTRY; *FORESTRY; *HERBICIDES; *INSTRUCTIONAL MATERIALS; MANAGEMENT; NONPOINT SOURCE POLLUTION; PESTICIDES; *POST SECONDARY EDUCATION; SILVICULTURE; *SPRAYING; TECHNICAL EDUCATION.

DESCRIPTIVE NOTE: 69 SLIDES-17 MUNUTES.

ABSTRACT: DISCUSSED IN THIS SLIDE-TAPE PROGRAM ARE THE USE AND BEHAVIOR OF HERBICIDES ON FOREST LANDS. GUIDELINES FOR THE PROPER USE OF HERBICIDES ARE PRESENTED AND THE ENVIRONMENTAL IMPACT OF HERBICIDES USE IS EXAMINED. OUTLINED ARE MANY ASPECTS OF THE CHEMICAL BEHAVIOR OF HERBICIDES IN THE FOREST ENVIRONMENT.

AVAILABILITY: FORESTRY MEDIA CENTER, OREGON STATE UNIVERSITY, SCHOOL OF FORESTRY, CORVALLIS, OR 97331. $15.00 RENTAL FEE-SLIDE TAPE #667.

IRIS ACCESSION NUMBER: EW005301

PUBLICATION DATE: MAR 76

TITLE: INSECTS AND DECAY IN THE HOME: METHODS OF CONTROL AND PREVENTION.

PERSONAL AUTHOR: HARRIS, TIFFIN.

DESCRIPTOR: *AUDIOVISUAL AIDS; *ENTOMOLOGY; EXTERMINATION SERVICES; GUIDELINES; *HOME ENVIRONMENT; *INSECTICIDES; *INSTRUCTIONAL MATERIALS; MANAGEMENT; *INSECT CONTROL; PESTICIDES; *POST SECONDARY EDUCATION; TECHNICAL EDUCATION.

DESCRIPTIVE NOTE: 60 SLIDES-12 MINUTES.

ABSTRACT: DESCRIBED IN THIS SLIDE TAPE PROGRAM ARE METHODS TO PREVENT AND CONTROL ACTIVE INFESTATIONS OF THE HOME BY INSECTS. PROCEDURES TO PREVENT FUTURE PROBLEMS WITH DECAY AND INSECTS ARE DETAILED. CRITERIA FOR THE SELECTION OF OVER-THE-COUNTER INSECTICIDES AND/OR PROFESSIIONAL PEST CONTROL SERVICES ARE DETAILED.

AVAILABILITY: FORESTRY MEDIA CENTER, OREGON STATE UNIVERSITY, SCHOOL OF FORESTRY, CORVALLIS, OR 97331. $15.00 RENTAL FEE-SLIDE TAPE #708.3.

IRIS ACCESSION NUMBER: EW005302
PUBLICATION DATE: 79

TITLE: INTERNATIONAL REGULATORY ASPECTS FOR PESTICIDE CHEMICALS. VOLUME I. TOXICITY PROFILES.

PERSONAL AUTHOR: VETTORAZZI, GASTON.

DESCRIPTOR: *AGRICULTURE; CARCINOGENS; CHEMICAL REACTIONS; *FOOD; GOVERNMENT ROLE; INTERNATIONAL PROGRAMS; *PESTICIDES; *PUBLIC HEALTH; *REFERENCE MATERIALS; *REGULATIONS; RESEARCH; *TOXICOLOGY; TOXIC SUBSTANCES; WORLD PROBLEMS.

DESCRIPTIVE NOTE: 216P.

ABSTRACT: PRESENTED IS TOXICOLOGICAL ASSESSMENT OF 140 PESTICIDE CHEMICALS USED IN AGRICULTURE AND PUBLIC HEALTH. COMPILED JOINTLY BY THE WORLD HEALTH ORGANIZATION (WHO) AND THE FOOD AND AGRICULTRUAL ORGANIZATION OF THE UNITED NATIONS, EACH PESTICIDE IS PROFILED TO PROVIDE THE MOST IMPORTANT CONCLUSIONS, DELIBERATIONS, AND COMMENTS MADE IN CARRYING OUT THE TECHNOLOGICAL ASSESSEMENT. FOR EACH PESTICIDE, REFERENCE IS MADE TO TOXICOLOGICAL STUDIES AVAILABLE, MAJOR USES, TECHNICAL PRODUCT AND FORMULATIONS, AND THE NATURE OF RESIDUES IN FOOD. WHERE APPROPRIATE, REFERENCE IS MADE TO THE DELIBERATIONS OF AN INTERNATIONAL GROUP OF EXPERTS ON CHEMICAL CARCINOGENESIS (INTERNATIONAL AGENCY FOR RESEARCH ON CANCER, IARC) AND OTHER GROUPS IN THE WORLD HEALTH ORGANIZATION DEALING SPECIFICALLY WITH THE SOLE USE OF PESTICIDES.

AVAILABILITY: CRC PRESS, INC. 2000 N.W. 24TH STREET, BOCA RATON, FL 33431. PRICE: $59.95.

IRIS ACCESSION NUMBER: EW005303

PUBLICATION DATE: 80

TITLE: NEW TECHNOLOGY OF PEST CONTROL.

DESCRIPTOR: *AGRICULTURE; *AGRICULTURAL PRODUCTION; BIOLOGICAL CONTROL; *DISEASE CONTROL; ENTOMOLOGY; ECONOMICS; ENVIRONMENTAL RESEARCH; *INSECTS; INSECTICIDES; MANAGEMENT; NATURAL RESOURCES; *PEST CONTROL; *PESTICIDES; PUBLIC HEALTH; SCIENCES; *TECHNOLOGY

DESCRIPTIVE NOTE: 500P.

ABSTRACT: REPORTS RESEARCH PROGRESS IN THE NATIONAL SCIENCE FOUNDATION/ENVIRONMENTAL PROTECTION AGENCY INTEGRATED PEST MANAGEMENT PROGRAM. DESCRIBES IMPROVED STRATEGIES AND TACTICS FOR MANAGEING PESTS IN SIX MAJOR AGRICULTURAL ECOSYSTEMS. DISCUSSES THE VALUE OF DESCRIPTIVE OR ANALYTICAL MODELS, COMPUTERIZED DATA MANAGEMENT RESOURCES, SYSTEMS ANALYSIS AND THE MULTIDISCIPLINED APPROACH. INCLUDED ARE DISCUSSIONS RELATED TO SOY BEANS, COTTON, ALFALFA, CITRUS FRUITS, AND PINE TREES.

AVAILABILITY: JOHN WILEY AND SONS, INC., ONE WILEY DRIVE, SOMERSET, NJ 00873. PRICE: $29.50

IRIS ACCESSION NUMBER: EW005304
PUBLICATION DATE: 79

TITLE: TOXICITY OF PESTICIDES VOLUME 3. 1978-SEPTEMBER, 1979.

DESCRIPTOR: AQUATIC ORGANISMS; *ANNOTATED BIBLIOGRAPHIES; CARCINOGENS; ECOLOGY; FOOD CHAINS; HERBICIDES; INSECTICIDES; *PESTICIDES; *PUBLIC HEALTH; *POLLUTION; *TOXICOLOGY; *TOXIC SUBSTANCES; WILDLIFE; WATER POLLUTION CONTROL; *WASTE DISPOSAL; WATER QUALITY

DESCRIPTIVE NOTE: 114P.

ABSTRACT: RESEARCH REPORTS ON THE TOXIC EFFECTS OF PESTICIDES ON NON-TARGET ORGANISMS ARE CITED. STUDIES ARE INCLUDED ON THE BIOLOGICAL EFFECTS ON HUMANS, WILDLIFE, AND AQUATIC LIFE THROUGH DIRECT EXPOSURE, FOOD CHAINS AND DEGREDATION PRODUCTS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, OPERATIONS DIVISION, SPRINGFIELD, VA 22161. PRICE: $30.00.

IRIS ACCESSION NUMBER: EW005305

PUBLICATION DATE: 79

TITLE: TOXICITY OF PESTICIDES VOLUME 2. OCTOBER, 1976-AUGUST, 1978.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; AQUATIC ORGANISMS; *ANNOTATED BIBLIOGRAPHIES; CARCINOGENS; ECOLOGY; FOOD CHAINS; HERBICIDES; INSECTICIDES; *PESTICIDES; *PUBLIC HEALTH; *POLLUTION; *TOXICOLOGY; *TOXIC SUBSTANCES; WILDLIFE; WATER POLLUTION CONTROL; WASTE DISPOSAL; WATER QUALITY

DESCRIPTIVE NOTE: 386P.

ABSTRACT: RESEARCH REPORTS ON THE TOXIC EFFECTS OF PESTICIDES ON NON-TARGET ORGANISMS ARE CITED. STUDIES ARE INCLUDED ON THE BIOLOGICAL EFFECTS ON HUMANS, WILDLIFE, AND AQUATIC LIFE THROUGH DIRECT EXPOSURE, FOOD CHAINS AND DEGREDATION PRODUCTS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, OPERATIONS DIVISION, SPRINGFIELD, VA 22161. PRICE: $30.00.

IRIS ACCESSION NUMBER: EW005306

PUBLICATION DATE: 79

TITLE: DDT, DDD, AND DDE PESTICIDES VOLUME 2. 1977-AUGUST, 1979.

DESCRIPTOR: AIR POLLUTION; ANIMALS; *ANNOTATED BIBLIOGRAPHIES; BIODEGREDATION; BIOASSY TECHNIQUES; BIOACCUMULATION; CARCINOGENS; *DDT; ECOLOGY; *INSECTICIDES; MODELS; METABOLITES; *PESTICIDES; *POLLUTION; PLANTS; PUBLIC

HEALTH; *TOXICOLOGY; TOXIC SUBSTANCES; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 171P.

ABSTRACT: THE CITED REPORTS COVER POLLUTION, BIODEGREDATION, ECOLOGICAL EFFECTS, USES, AND ACCUMULATION IN PLANTS AND ANIMALS OF DDD, DDE AND DDT INSECTICIDES.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, OPERATIONS DIVISION, SPRINGFIELD, VA 22161. PRICE: $30.00.

IRIS ACCESSION NUMBER: EW005322

PUBLICATION DATE: 76

TITLE: IOWA NOXIOUS WEEDS

DESCRIPTOR: *AGRICULTURAL PRODUCTION; *BOTANY; ECOLOGY; HEALTH; HERBICIDES; NATURAL RESOURCES; *PLANT IDENTIFICATION; STATE LAWS; *WEEDS; *IOWA; *NOXIOUS WEEDS

DESCRIPTIVE NOTE: 30P.

ABSTRACT: THIS PUBLICATION DISCUSSES NOXIOUS WEEDS AFFECTING AGRICULTURAL PRODUCTION. EACH MATURE PLANT IS PORTRAYED IN A COLORED PICTURE ACCOMPANIED BY A VIEW OF THE PLANT'S SEED AND SEEDLING STAGE. A WRITTEN PROFILE PROVIDES A DESCRIPTION AND INDICATION OF GEOGRAPHICAL DISTRIBUTION. SPECIFIC CONTROL MEASURES ARE ADDRESSED IN A GENERAL AND VERY BRIEF MANNER. A GLOSSARY OF BOTANICAL TERMS IS INCLUDED FOR REFERENCE.

AVAILABILITY: STATE OF IOWA, DEPT OF AGRICULTURE, IOWA STATE UNIV, DES MOINES, IOWA (NO PRICE QUOTED)

INSTITUTION NAME: STATE OF IOWA, DEPT OF AGRICULTURE.

IRIS ACCESSION NUMBER: EW005323

PUBLICATION DATE: 78

TITLE: 1978 TURFGRASS PEST CONTROL.

PERSONAL AUTHOR: STREET, J.R.; AND OTHERS

DESCRIPTOR: ENTOMOLOGY; *HERBICIDES; *INSTRUCTIONAL MATERIALS; *ORNAMENTAL HORTICULTURE; *PESTS; PESTICIDES; *TURF MANAGEMENT; WEEDS; *ILLINOIS

DESCRIPTIVE NOTE: 6P. CIRCULAR 1076

ABSTRACT: THIS CIRCULAR PROVIDES INFORMATION FOR THOSE INDIVIDUALS CONCERNED WITH THE MANAGEMENT OF TURFGRASS AREAS. DESCRIBED IN TABULAR FORM THE CONTROL MEASURES FOR WEEDS, INSECTS AND DISEASES OF TURF ARE PRESENTED. APPLICATION RATES, EFFECTIVENESS AND SAFETY ARE STRESSED.

AVAILABILITY: UNIV. OF ILLINOIS AT URBANA-CHAMPAIGN, COLLEGE OF AGRICULTURE, COOPERATIVE EXT.

IRIS ACCESSION NUMBER: EW005324

PUBLICATION DATE: 75

TITLE: ENVIRONMENTAL HAZARDS OF METALS.

PERSONAL AUTHOR: BRAKHNOVA, IRINA T.; STEPP, J.H., TRANSLATOR

DESCRIPTOR: AEROSOLS; CHEMISTRY; CERAMICS; ENVIRONMENT; HAZARDS; HYGIENE; *INDUSTRY; *METALS; *OCCUPATIONAL SAFETY; PUBLIC HEALTH; *SAFETY; *TOXICITY

ABSTRACT: PRESENTED ARE THE RESULTS OF INVESTIGATIONS AT THE KIEV INSTITUTE OF LABOR HYGIENE AND OCCUPATIONAL DISEASES REGARDING THE CONDITIONS OF FORMATION OF METALLIC AEROSOLS IN POWDER METALLURGICAL PLANTS AND IN ALLIED BRANCHES OF THE INDUSTRY. THE TEXT DISCUSSES THE HEALTH AND MORBIDITY OF WORKERS WITHIN THESE PLANTS AND PRESENTS EXPERIMENTAL DATA ON THE FIBROGENIC AND GENERAL TOXIC EFFECTS OF A VARIETY OF POWDERED METALS. ADDITIONALLY EXISTING INFORMATION ON THE ELECTRONIC AND CRYSTAL STRUCTURE OF METALS AND THEIR COMPOUNDS IS PROVIDED.

AVAILABILITY: CONSULTANTS BUREAU, 227 W. 17TH ST. NW, NEW YORK, NY 10011 ($29.50)

IRIS ACCESSION NUMBER: EW005325

PUBLICATION DATE: 74

TITLE: POLLUTION AND THE USE OF CHEMICALS IN AGRICULTURE.

PERSONAL AUTHOR: IRVINE, DAVID E.G.; KNIGHTS, BRIAN, EDS.

DESCRIPTOR: *AGRICULTURE; BIOLOGY; *CHEMICAL CONTROL; ENTOMOLOGY; *ENVIRONMENT; ECONOMICS; ECOSYSTEMS; LEGISLATION; LAND USE; PESTS; *PESTICIDES; *POLLUTION; PUBLIC HEALTH; TOXICITY; WILDLIFE

ABSTRACT: PRESENTED IS INFORMATION FROM A SYMPOSIUM AT THE POLYTECHNIC OF NORTH LONDON. THE MEETING FOCUSED ON THE INCREASING USE OF AGROCHEMICALS AND THE LONG-TERM EFFECT THEIR USE WILL HAVE IN REGARD TO THE ENVIRONMENT AND MAN. CONTRIBUTORS TO THE SYMPOSIUM WERE CHOSEN TO REPRESENT FARMERS, THE AGROCHEMICAL INDUSTRY, GOVERNMENTAL ORGANIZATIONS AND EDUCATIONAL INSTITUTIONS. GENERAL TOPICS DISCUSSED INCLUDE THE NEED FOR CHEMICALS, THE USE OF CHEMICALS, THE EFFECTS OF PESTICIDES ON WILDLIFE AND THE NATURAL ENVIRONMENT, LEGISLATION, AND THE ECONOMICS OF USE.

AVAILABILITY: ANN ARBOR SCIENCE PUB., P.O. BOX 1425, ANN ARBOR, MI 48106 ($12.50)

IRIS ACCESSION NUMBER: EW005326

PUBLICATION DATE: 75

TITLE: CONTEMPORARY PEST CONTROL PRACTICES AND PROSPECTS, VOL. 1.

DESCRIPTOR: *AGRICULTURE; BIOLOGICAL CONTROL; *COLLEGE SCIENCE; ENVIRONMENT; *INSTRUCTIONAL MATERIALS; INTEGRATED PEST MANAGEMENT; *PEST CONTROL; PESTICIDES; POLLUTION; *PUBLIC HEALTH; RESEARCH REPORTS; SAFETY; *TEXTBOOKS

ABSTRACT: THIS DOCUMENT IS THE FIRST VOLUME IN A SERIES REPORTING THE FINDINGS OF CASE STUDIES CONDUCTED BY FOUR TEAMS OF THE ENVIRONMENTAL STUDIES BOARD OF THE NATIONAL ACADEMY OF SCIENCE. EACH TEAM EXAMINED A DIFFERENT PEST CONTROL PROBLEM. THREE WERE DIRECTLY RELATED TO SPECIFIC AGROECOSYSTEMS: COTTON, CORN AND SOYBEANS, AND TIMBER. THE FOURTH RELATED TO THE CONTROL OF PESTS OF PUBLIC HEALTH SIGNIFICANCE. EACH TEAM EXAMINED THE PEST SPECIES INVOLVED, CURRENT AND ALTERNATIVE CONTROL MEASURES, AND THE COMPARATIVE BENEFITS AND COSTS OF CONTROLLING THE PESTS BY VARIOUS METHODS. THE TYPES OF ALTERNATIVES EXAMINED INCLUDE GENETIC METHODS, BIOLOGICAL CONTROL, THIRD-GENERATION CHEMICALS, CULTURAL TECHNIQUES, AND INTEGRATED PEST MANAGEMENT SYSTEMS. THE APPENDIXES CONTAIN A SELECTED LIST OF STUDIES ON PESTICIDES. MAJOR RECOMMENDATIONS BY THE STUDY TEAMS ARE PRESENTED AND DISCUSSED.

AVAILABILITY: NATIONAL ACADEMY OF SCIENCES, 2101 CONSTITUTION AVE., NW., WASHINGTON, DC. 20418 ($11.75)

INSTITUTION NAME: NATIONAL ACADEMY OF SCIENCES.

IRIS ACCESSION NUMBER: EW005327

PUBLICATION DATE: 75

TITLE: CORN/SOYBEANS PEST CONTROL. VOL. II.

DESCRIPTOR: AGRICULTURE; BIOLOGICAL CONTROL; *CORN; CROP PRODUCTION; ECONOMICS; *HERBICIDES; *INSTRUCTIONAL MATERIALS; *PEST CONTROL; *PESTICIDES; POLLUTION; *POST SECONDARY EDUCATION; *SOYBEANS; *TEXTBOOKS

ABSTRACT: THIS DOCUMENT IS THE SECOND VOLUME IN A SERIES REPORTING ON THE FINDINGS OF CASE STUDIES CONDUCTED BY THE ENVIRONMENTAL STUDIES BOARD OF THE NATIONAL ACADEMY OF SCIENCE. THE STUDIES PRESENTED RELATIVE TO CORN/SOYBEAN PEST CONTROL EXAMINED THE WEED AND INSECT PEST SPECIES INVOLVED, CURRENT AND ALTERNATIVE CONTROL MEASURES, AND THE COMPARATIVE BENEFITS AND COSTS OF CONTROLLING THE PESTS BY A VARIETY OF METHODS. THIS REPORT COMPILES INFORMATION WIDELY SCATTERED IN THE LITERATURE OF AGRICULTURAL ECONOMICS, ENTOMOLOGY AND PLANT GENETICS. SPECIFIC RECOMMENDATIONS OF THE STUDY TEAM ARE PRESENTED AND DISCUSSED.

AVAILABILITY: NATIONAL ACADEMY OF SCIENCES, 2101 CONSTITUTION AVE., NW, WASHINGTON, DC. 20418 ($5.50)

INSTITUTION NAME: NATIONAL ACADEMY OF SCIENCES.

IRIS ACCESSION NUMBER: EW005328

PUBLICATION DATE: 75

TITLE: COTTON PEST CONTROL. VOL III.

DESCRIPTOR: *AGRICULTURE; BIOLOGICAL CONTROL; *CROP PRODUCTION; DISEASES; ECONOMICS; ECOSYSTEM; ENVIRONMENT; ENVIRONMENTAL RESEARCH; INSECTS; *PEST CONTROL; *PESTICIDES; *PESTS; WEEDS; *COTTON

ABSTRACT: THIS DOCUMENT IS THE THIRD VOLUME IN A SERIES REPORTING ON THE FINDINGS OF CASE STUDIES CONDUCTED BY THE ENVIRONMENTAL STUDIES BOARD OF THE NATIONAL ACADEMY OF SCIENCE. THE INFORMATION PRESENTED RELATIVE TO COTTON PEST CONTROL EXAMINES THE PLANT AND INSECT PEST SPECIES INVOLVED, CURRENT AND ALTERNATIVE CONTROL MEASURES, AND THE COMPARATIVE BENEFITS AND COSTS OF CONTROLLING THE PESTS BY A VARIETY OF METHODS. THIS REPORT ATTEMPTS TO SYNTHESIZE AND COMPILE THE INFORMATION ALREADY KNOWN BUT WIDELY SCATTERED IN THE LITERATURE OF AGRONOMY, AGRICULTURAL ECONOMICS, PLANT PATHOLOGY, AND ENTOMOLOGY. SPECIFIC RECOMMENDATIONS OF THE STUDY TEAM ARE PRESENTED AND DISCUSSED.

AVAILABILITY: NATIONAL ACADEMY OF SCIENCES, 2101 CONSTITUTION AVE., NW. WASHINGTON, DC. 20418 ($5.00)

INSTITUTION NAME: NATIONAL ACADEMY OF SCIENCES.

IRIS ACCESSION NUMBER: EW005329

PUBLICATION DATE: 75

TITLE: FOREST PEST CONTROL, VOL. IV.

DESCRIPTOR: AGRICULTURE; *BIOLOGICAL CONTROL; CROP PRODUCTION; DISEASES; ECONOMICS; ECOSYSTEM; *ENVIRONMENT; ENVIRONMENTAL RESEARCH; *FOREST PEST CONTROL; INSECTS; MANAGEMENT; NATURAL RESOURCES; PUBLIC POLICY; *PEST CONTROL; *PESTICIDES; *PEST; WEEDS

ABSTRACT: THIS DOCUMENT IS THE FOURTH IN A SERIES REPORTING ON THE FINDINGS OF CASE STUDIES CONDUCTED BY THE ENVIRONMENTAL STUDIES BOARD OF THE NATIONAL ACADEMY OF SCIENCE. THE INFORMATION PRESENTED RELATIVE TO FOREST PEST CONTROL EXAMINES THE MICROORGANISMS, INSECTS, VERTEBRATES AND WEED SPECIES INVOLVED; CURRENT AND ALTERNATIVE CONTROL MEASURES; AND THE COMPARATIVE BENEFITS AND COSTS OF CONTROLLING THE PESTS BY VARIOUS METHODS. THIS REPORT ATTEMPTS TO SYNTHESIZE THE INFORMATION SCATTERED IN THE LITERATURE OF AGRICULTURE, BOTANY, ZOOLOGY AND FORESTRY.

AVAILABILITY: NATIONAL ACADEMY OF SCIENCES, 2101 CONSTITUTION AVE., NW, WASHINGTON, D.C. 20418 ($15.75)

INSTITUTION NAME: NATIONAL ACADEMY OF SCIENCES.

IRIS ACCESSION NUMBER: EW005330

PUBLICATION DATE: 76

TITLE: PEST CONTROL AND PUBLIC HEALTH, VOL V.

DESCRIPTOR: *AGRICULTURAL PRODUCTION; *ENTOMOLOGY; ENVIRONMENT; ENVIRONMENTAL RESEARCH; FEDERAL AGENCIES; LAND MANAGEMENT; *PESTICIDES; *PESTS; *PUBLIC HEALTH; RODENTS;

SAFETY; SANITATION; ZOOLOGY; BIOLOGICAL CONTROL

ABSTRACT: THIS DOCUMENT IS THE FIFTH IN A SERIES REPORTING THE FINDINGS OF CASE STUDIES CONDUCTED BY THE ENVIRONMENTAL STUDIES BOARD OF THE NATIONAL ACADEMY OF SCIENCE. THE INFORMATION PRESENTED RELATIVE TO PEST CONTROL EXAMINES THE PEST SPECIES INVOLVED, CURRENT AND ALTERNATIVE CONTROL MEASURES, AND THE COMPARATIVE BENEFITS AND COSTS OF CONTROLLING THE PESTS BY VARIOUS METHODS. THE REPORT ANALYZES CONTEMPORARY PUBLIC HEALTH PRACTICES AND THE USE OF PESTICIDES; ARTHROPODS OF PUBLIC HEALTH IMPORTANCE; ALTERNATIVE STRATEGIES; AND THE DIFFUSION OF MORE INTENSIVE AGRICULTURAL TECHNOLOGIES AND THEIR CONSEQUENCES FOR PUBLIC HEALTH. THE INFORMATION PRESENTED IS A SYNTHESIS OF THAT FOUND IN THE AGRONOMY, BIOLOGY AND ALLIED HEALTH DISCIPLINES.

AVAILABILITY: NATIONAL ACADEMY OF SCIENCES, 2101 CONSTITUTION AVE., NW, WASHINGTON, D.C. 20418 ($8.00)

INSTITUTION NAME: NATIONAL ACADEMY OF SCIENCES.

IRIS ACCESSION NUMBER: EW005331

PUBLICATION DATE: SEP 66

TITLE: PREVENT 2,4-D INJURY TO CROPS AND ORNAMENTAL PLANTS

PERSONAL AUTHOR: LINN, M. B.; AND OTHERS

DESCRIPTOR: *AGRICULTURAL PRODUCTION; BOTANY; *ENVIRONMENT; GUIDES; *HERBICIDES; *INSTRUCTIONAL MATERIALS; *ORNAMENTAL HORTICULTURE; PESTICIDES; POST SECONDARY EDUCATION; SAFETY; *WEEDS; 2,4-DICHLOROPHENOXYACETIC ACID

DESCRIPTIVE NOTE: 15P. CIRCULAR 808

ABSTRACT: THIS CIRCULAR PROVIDES INFORMATION RELATING TO THE USE OF 2, 4 D HERBICIDE. IT DESCRIBES AND ILLUSTRATES THE SYMPTOMS OF INJURY ON SOME OF THE MORE SUSCEPTIBLE CROPS AND ORNAMENTAL PLANTS. ALSO DISCUSSED ARE THE KINDS OF EXPOSURE OF CROPS TO 2, 4-D AND SUGGESTED WAYS 2, 4-D CAN BE USED TO CONTROL WEEDS WITH THE LEAST CHANCE OF INJURY.

AVAILABILITY: COOPERATIVE EXTENSION WORK, UNIVERSITY OF ILLINOIS, COLLEGE OF AGRICULTURE, (NO PRICE QUOTED)

IRIS ACCESSION NUMBER: EW005332

PUBLICATION DATE: 78

TITLE: WEEDING WITH CHEMICALS; 1978 GUIDE.

DESCRIPTOR: *AGRICULTURAL PRODUCTION; EQUIPMENT UTILIZATION; *GUIDES; *HERBICIDES; *INSTRUCTIONAL MATERIALS; *PESTICIDES; POST SECONDARY EDUCATION; *WEEDS; *INDIANA

DESCRIPTIVE NOTE: 46P.

ABSTRACT: THIS CIRCULAR PROVIDES INFORMATION ON THE USE AND EFFECTIVENESS OF HERBICIDES ON AGRONOMIC AND HORTICULTURAL CROPS . INCLUDED ARE FIELD CROPS, FORAGES, TURF, WATERWEEDS, VEGETABLE CROPS, FRUITS AND SPECIALTY CROPS, AND SPECIFIC WEEDS. A DISCUSSION OF THE RECOMMENDED TREATMENT FOR EACH CROP AND WEED SITUATION IS GIVEN ALONG WITH COMMENTS REGARDING THE PROPER APPLICATION METHOD. SAFETY PRECAUTIONS REGARDING EQUIPMENT, APPLICATOR, AND ENVIRONMENT ARE STRESSED.

AVAILABILITY: COOPERATIVE EXTENSION SERVICE, PURDUE UNIV., WEST LAFAYETTE, IN 47907 (NO PRICE QUOTED)

INSTITUTION NAME: PURDUE UNIVERSITY.

IRIS ACCESSION NUMBER: EW005333

PUBLICATION DATE: 77

TITLE: INDIANA 1977 FRUIT SPRAY SCHEDULES.

DESCRIPTOR: *AGRICULTURAL PRODUCTION; ENTOMOLOGY; *ENVIRONMENT; *HORTICULTURE; *PESTICIDES; PUBLIC HEALTH; RODENTS; SAFETY; WEEDS; *INDIANA; *PESTICIDE APPLICATION SCHEDULES

DESCRIPTIVE NOTE: 47P.

ABSTRACT: THIS REPORT PROVIDES SCHEDULES FOR CONTROL OF INSECT AND WEED PROBLEMS THROUGH THE APPLICATION OF PESTICIDES. INFORMATION IS GIVEN FOR FRUIT CROPS SUCH AS APPLES, PEACHES, CHERRIES, GRAPES, RASPBERRIES AND STRAWBERRIES. HARVEST RESTRICTIONS AND SAFETY CONSIDERATIONS FOR APPLICATORS AND THE ENVIRONMENT ARE STRESSED. A LIST OF POISON CONTROL CENTERS IS PROVIDED FOR REFERENCE.

AVAILABILITY: COOPERATIVE EXTENSION SERVICE, PURDUE UNIV., WEST LAFAYETTE, IN 47907 (NO PRICE QUOTED)

INSTITUTION NAME: PURDUE UNIV AGRICULTURAL EXPERIMENT STATION AND THE ENTOMOLOGY RESEARCH DIVISION.

IRIS ACCESSION NUMBER: EW005334

TITLE: DISEASE OF CORN IN THE MIDWEST, PUBLICATION NO. 21.

PERSONAL AUTHOR: NORTH CENTRAL REGIONAL EXTENSION.

DESCRIPTOR: *AGRICULTURAL PRODUCTION; *CORN; DISEASES; ENVIRONMENTAL INFLUENCES; *FIELD CROPS; *INSTRUCTIONAL MATERIALS; PLANT GROWTH; *PLANT PATHOLOGY; *POST SECONDARY EDUCATION

ABSTRACT: DESCRIBED ARE THE INFECTIOUS DISEASES OF CORN WHICH HAVE BEEN RECOGNIZED IN THE NORTH CENTRAL STATES. INCLUDED ARE DISCUSSIONS OF THESYMPTOMS, CAUSE AND CONTROL OF PATHOGENS AFFECTING STALKS, ROOTS, EARS, KERNELS, AND LEAVES. PHOTOGRAPHS OF EACH PROBLEM ACCOMPANY THE TEXT. A GLOSSARY OF TERMS IS INCLUDED FOR REFERENCE.

AVAILABILITY: COOPERATIVE EXTENSION SERVICE, UNIVERSITY OF

ILLINOIS AT URBANA-CHAMPAIGN, URBANA, ILLINOIS 61801 (NO PRICE QUOTED)

INSTITUTION NAME: UNIV OF ILLINOIS AT URBANA-CHAMPAIGN, COLLEGE OF AGRICULTURE.

IRIS ACCESSION NUMBER: EW005335

PUBLICATION DATE: 76

TITLE: PESTICIDES BOON OR BANE?

PERSONAL AUTHOR: GREEN, M.B.

DESCRIPTOR: *AGRICULTURE; COST-BENEFIT ANALYSIS; DEVELOPING NATIONS; ECOLOGY; ECONOMIC FACTORS; *ENVIRONMENT; *INSTRUCTIONAL MATERIALS; NATIONAL POLICY; *PESTICIDES; POLLUTION; *POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: 111P.

ABSTRACT: THIS BOOK EXAMINES BOTH THE BENEFITS AND RISKS OF PESTICIDES AND WEIGHS THEM AGAINST EACH OTHER. THE VALUE OF PESTICIDES TO THE U.S. NATIONAL ECONOMY AND WELL-BEING IS MEASURED AGAINST THE RISKS OF POSSIBLE HARM TO THE ENVIRONMENT. THE AUTHOR ADVOCATES THE USE OF COST BENEFIT ANALYSIS TO DETERMINE WHAT RESTRICTIONS OR PROHIBITIONS SHOULD BE PLACED ON THE USE OF A PARTICULAR PESTICIDE. BUT HE ALSO POINTS OUT THAT THE RESULT OF A COST BENEFIT ANALYSIS FOR A PARTICULAR PESTICIDE IN ONE COUNTRY MAY NOT BE THE SAME AS THAT IN ANOTHER COUNTRY, AND THAT THE FACTORS OF THE EQUATION MIGHT BE TOTALLY DIFFERENT IF THE FOOD AND HEALTH NEEDS OF THE DEVELOPING COUNTRIES ARE CONSIDERED. VIEWPOINTS OF THE MANUFACTURER, FARMER, FOOD PROCESSOR, CONSUMER, PUBLIC, AND GOVERNMENT ARE PRESENTED ALONG WITH A DISCUSSION OF ALTERNATIVES TO PESTICIDE USE.

AVAILABILITY: WESTVIEW PRESS, 1898 FLATIRON CT., BOULDER, CO 80301 ($12.75)

IRIS ACCESSION NUMBER: EW005336

TITLE: THE ORGANIC WAY TO PLANT PROTECTION.

DESCRIPTOR: *AGRICULTURE; BIOLOGY; BOTANY; ECOLOGY; *ENTOMOLOGY; ENVIRONMENT; GARDENING; INSECTICIDES; *ORGANIC GARDENING; *PEST CONTROL; *PESTICIDES

DESCRIPTIVE NOTE: 355P.

ABSTRACT: THIS BOOK DESCRIBES THE BIOLOGICAL/ORGANIC CONTROL OF PLANT PESTS USING SUCH TECHNIQUES AS QUARANTINE, CORRECT PLANT FEEDING, INSECT TRAPS, BENEFICIAL INSECTS, COMPANION PLANTING, BIRDS, AND RELATIVELY SAFE INSECTICIDES SUCH AS ROTENONE. THERE ARE CHAPTERS ON CONTROLLING PROBLEMS IN FRUIT, TREES, AND VEGETABLES. THE CONTROL OF INSECT PESTS AND PLANT DISEASES IS DESCRIBED FOR MANY VARIETIES OF VEGETABLES, FRUITS, FLOWERING PLANTS, TREES, ORNAMENTAL SHRUBS, AND LAWNS. IN ADDITION THERE ARE CHAPTERS ON THE CONTROL OF COMMON PLANT PESTS SUCH AS ANTS, APHIDS, EARWIGS, BEETLES, MICE, NEMATODES, AND WORMS.

AVAILABILITY: RODALE PRESS, INC., 33 E. MINOR ST., EMMAUS, PA 18049

IRIS ACCESSION NUMBER: EW005337

PUBLICATION DATE: 64

TITLE: PESTICIDES AND THE LIVING LANDSCAPE.

PERSONAL AUTHOR: RUDD, ROBERT L.

DESCRIPTOR: BROAD SPECTRUM PESTICIDE; *CHEMICAL TREATMENT; *ECOLOGY; *ENVIRONMENTAL EFFECT; HERBICIDES; INSECTICIDES; INVERTEBRATES; LAWS; *PESTS; *PESTICIDES; VERTEBRATES

ABSTRACT: THIS BOOK DESCRIBES SOME OF THE CONFLICT BETWEEN MAN AND OTHER LIVING THINGS, AND THE METHODS WE HAVE USED TO REDUCE THIS CONFLICT. IT ADDRESSES THE FOLLOWING QUESTIONS: HOW DOES MAN EXPLOIT THE LIVING ENVIRONMENT? HOW DOES HE CHALLENGE THE ORGANISMS THAT INTERFERE WITH HIS EXPLOITATION? HOW SUCCESSFUL IS HE IN CONTROLLING THESE COMPETING ORGANISMS? WHAT METHODS DOES HE USE TO CONTROL THEM? WHAT PRICE DOES HE PAY FOR THE METHODS IN PRACTICE? THE FIRST FIVE CHAPTERS ARE INTENDED TO BE SUMMARY REVIEWS OF THE KINDS, ECONOMICS, AND REGULATIONS OF PESTICIDES. THE REMAINING SEVENTEEN CHAPTERS ARE DEVOTED TO THE RESPONSE OF ANIMALS TO CHEMICAL CONTROL AND TO ECOLOGICAL RELATIONSHIPS. INCLUDED ARE CHAPTERS ON INVERTEBRATES, COLD-AND WARM-BLOODED VERTEBRATES, SUBLETHAL EFFECTS, RESISTANCE TO INSECTICIDES, HUMAN HAZARDS, PESTICIDE RESIDUES, AND FOOD CHAINS.

AVAILABILITY: UNIV. OF WISCONSIN PRESS, 430 STERLING CT., MADISON, WI. ($15.00) (5.25 PAPER)

IRIS ACCESSION NUMBER: EW005338

PUBLICATION DATE: 73

TITLE: PESTICIDE FORMULATIONS.

PERSONAL AUTHOR: VAN VALKENBURG, WADE

DESCRIPTOR: *AGRICULTURAL CHEMICALS; BIOCHEMISTRY; *CHEMISTRY; COLLEGE SCIENCE; *HERBICIDES; *INSECTICIDES; *INSTRUCTIONAL MATERIALS; ORGANIC CHEMISTRY; *PESTICIDES; PHYSICAL CHEMISTRY; SCIENTIFIC RESEARCH

DESCRIPTIVE NOTE: 481P.

ABSTRACT: THIS IS NOT A "HOW TO" FORMULATIONS RECIPE BOOK. RATHER, ITS OBJECTIVES ARE TO FOSTER A GREATER UNDERSTANDING OF FUNDAMENTAL PRINCIPLES INVOLVED IN RESEARCH ON PESTICIDE FORMULATIONS. THE TEN CHAPTERS OF THIS BOOK ARE DEVOTED TO THE FOLLOWING TOPICS: (1) CORRELATION OF BIOLOGICAL ACTIVITY WITH CHEMICAL STRUCTURE AND PHYSICAL PROPERTIES; (2) THE EMULSIFIER; (3) THE STABILITY OF EMULSIONS; (4) AGRICULTURAL FORMULATIONS WITH LIQUID FERTILIZERS; (5) FORMULATION OF

PESTICIDAL DUSTS, WETTABLE POWDERS, AND GRANULES; (6) PLANTS FOR THE FORMULATIONS OF INSECTICIDES; (7) REDUCING PESTICIDE CHEMICAL DRIFT; (8) SPREADING AND RETENTION OF AGRICULTURAL SPRAYS ON FOLIAGE; (9) PENETRATION AND TRANSLOCATION OF HERBICIDES; AND (10) ADSORPTION, MOVEMENT, AND DISTRIBUTION OF PESTICIDES IN SOILS.

AVAILABILITY: MARCEL DEKKER, INC., 95 MADISON AVE., NEW YORK, NY 10016 ($36.50)

IRIS ACCESSION NUMBER: EW005339

PUBLICATION DATE: 69

TITLE: PESTICIDES AND POLLUTION.

PERSONAL AUTHOR: DEGLER, STANLEY E.

DESCRIPTOR: AGRICULTURE; *ENVIRONMENT; *FEDERAL GOVERNMENT; LEGISLATION; *PESTICIDES; *POLLUTION; REGISTRATION; *REGULATIONS; REGULATORY PEST CONTROL; SOIL; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 99P. BNS'S ENVIRONMENTAL MANAGEMENT SERIES.

ABSTRACT: THIS DISCUSSION OF THE POLLUTION OF AIR, SOIL, AND WATER BY PESTICIDES FOCUSES MAINLY ON THE LEGAL ASPECTS OF THE PROBLEM. ALMOST ALL RESEARCH RELATED TO THE POLLUTION ASPECTS OF PESTICIDES IS PREFORMED BY OR FOR THE FEDERAL GOVERNMENT. IN ADDITION, IT LISTS THE PESTICIDES THAT ARE BEING MONITORED IN THE ENVIRONMENT AND MENTIONS SOME OF THE UNIVERSITIES AND RESEARCHERS THAT ARE RECEIVING FEDERAL FUNDS FOR THEIR WORK. FINALLY, STATE AND FEDERAL LAWS AND REGULATIONS RELATING TO PESTICIDES ARE DISCUSSED.

AVAILABILITY: BUREAU OF NATIONAL AFFAIRS, INC., WASHINGTON, D.C. 20037 ($4.00)

IRIS ACCESSION NUMBER: EW005340

PUBLICATION DATE: 69

TITLE: BIOLOGICAL CONTROL.

PERSONAL AUTHOR: HUFFAKER, C. B.

DESCRIPTOR: AGRICULTURE; BIOLOGY; *BIOLOGICAL CONTROL; *ENTOMOLOGY; *ECOLOGY; ENVIRONMENT; PARASITES; PREDATORS; PATHOGENS; *PESTS

DESCRIPTIVE NOTE: 511P.

ABSTRACT: THIS BOOK IS A COLLECTION OF PAPERS ON THE BIOLOGICAL CONTROL OF PESTS (USING PARASITES, PREDATORS, AND PATHOGENS) PRESENTED AT A SYMPOSIUM IN 1969. THE MAIN IDEA PRESENTED IS THAT BIOLOGICAL CONTROL COULD BE FAR MORE SUCCESSFUL AND FIND FAR GREATER USE IN PEST CONTROL IF ADEQUATE SUPPORT WERE AVAILABLE AND INTENSIFIED EFFORT COULD BE MADE ALONG SOUND ECOLOGICAL LINES. THE EMPHASIS OF THE PAPERS IS ON DOCUMENTED CASES OF BIOLOGICAL CONTROL AND THE USE OF BIOLOGICAL CONTROL IN DEVELOPING INTERGRATED CONTROL PROGRAMS WORLDWIDE. THE BOOK IS ORGANIZED INTO FOUR SECTIONS: (1) THE THEORY, ECOLOGICAL BASIS, AND ASSESSMENT OF BIOLOGICAL CONTROL; (2) OUTSTANDING RECENT EXAMPLES OF CLASSICAL BIOLOGICAL CONTROL; (3) THE UNHERALDED NATURALLY-OCCURING BIOLOGICAL CONTROL; AND (4) BIOLOGICAL CONTROL AS A KEY ELEMENT IN THE SYSTEMS APPROACH TO PEST CONTROL.

AVAILABILITY: PLENUM PUB. CORP., 227 W 17TH ST., NEW YORK, NY 10011

IRIS ACCESSION NUMBER: EW005341

PUBLICATION DATE: 76

TITLE: CONTROLLED RELEASE PESTICIDES FORMULATIONS.

PERSONAL AUTHOR: CARDARELLI, NATE

DESCRIPTOR: *AGRICULTURE; CHEMICAL PROPERTIES; CHEMICAL REACTIONS; *CONTACT PESTICIDES; HERBICIDES; HIGHER EDUCATION; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; MOLLUSCICIDES; ORGANIC COMPOUNDS; *PESTICIDES; *TEXTBOOKS; *CONTROLLED - RELEASE PESTICIDES

DESCRIPTIVE NOTE: 210P.

ABSTRACT: PRESENTED IS A SUMMARY OF THE STATE-OF-THE-ART OF CONTROLLED-RELEASE PESTICIDE FORMULATION WITH HISTORICAL BACKGROUND. FORMULATIONS AND METHODS OF PREPARING CONTROLLED-RELEASE PESTICIDES ARE DISCUSSED IN DETAIL REGARDING THE ANTIFOULING AND MOLLUSCICIDE AREAS, WHERE THE COMPOUNDING METHODOLOGY HAS BEEN WELL DEVELOPED. THE MATHEMATICAL BASIS OF CONTROLLED-RELEASE HAS BEEN DEVELOPED TO AN EXTENT AND IS PRESENTED IN AN ABBREVIATED FORM. THIS TEXT COVERS MOST OF THE SUBJECT PUBLISHED IN THE UNITED STATES UP TO MARCH 1975, PLUS UNPUBLISHED DATA FROM THE AUTHOR'S LABORATORY.

AVAILABILITY: CRC PRESS, 18901 CRANWOOD PARKWAY, CLEVELAND, OH 44128 ($54.95)

IRIS ACCESSION NUMBER: EW005342

PUBLICATION DATE: 74

TITLE: ORGANOPHOSPHORUS PESTICIDES: ORGANIC AND BIOLOGICAL CHEMISTRY.

PERSONAL AUTHOR: ETO, MORIFUSA

DESCRIPTOR: *AGRICULTURAL CHEMICALS; *BIOCHEMISTRY; *CHEMISTRY; *COLLEGE SCIENCE; *INSTRUCTIONAL MATERIALS; LABORATORY PROCEDURES; ORGANIC CHEMISTRY; *ORGANOPHOSPHORUS; *PESTICIDES; SCIENTIFIC RESEARCH; *TEXTBOOKS

DESCRIPTIVE NOTE: 387P.

ABSTRACT: PRESENTED ARE THE CHEMISTRY AND BIOLOGICAL

CHEMISTRY OF ORGANOPHOSPHORUS PESTICIDES, INCLUDING SYNTHESIS, ANALYSIS, METABOLISM, MODE OF ACTION, AND STRUCTURE - PESTICIDAL ACTIVITY RELATIONSHIPS. ALMOST ALL COMMERCIALIZED AND IMPORTANT EXPERIMENTAL ORGANOPHOSPHORUS PESTICIDES ARE MENTIONED. THE SUBJECTS ARE BROUGHT UP TO DATE THROUGH THE MIDDLE OF 1974. THIS BOOK SHOULD BE USEFUL AS A TEXTBOOK OR REFERENCE BOOK.

AVAILABILITY: CRC PRESS, 18901 CRANWOOD PARKWAY, CLEVELAND, OH 44128 ($57.70)

IRIS ACCESSION NUMBER: EW005343

PUBLICATION DATE: 73

TITLE: THE SCIENTIFIC PRINCIPLES OF CROP PROTECTION.

PERSONAL AUTHOR: MARTIN, HUBERT

DESCRIPTOR: *AGRICULTURAL CHEMICALS; AGRICULTURE; CHEMISTRY; *COLLEGE SCIENCE; FIELD CROPS; *FUNGICIDES; *HERBICIDES; INFECTION; *INSECTICIDES; *INSTRUCTIONAL MATERIALS; ORGANIC CHEMISTRY; *PESTICIDES; *POST SECONDARY EDUCATION; *TEXTBOOKS

DESCRIPTIVE NOTE: 423P.

ABSTRACT: THIS BOOK IS A SURVEY OF THE SCIENTIFIC PRINCIPLES UNDERLYING MODERN METHODS OF CONTROL OF CROP PESTS. IT CONTAINS CHAPTERS ON PLANT RESISTANCE, THE INFLUENCE OF EXTERNAL FACTORS, BIOLOGICAL CONTROL OF PESTS, THE MEASUREMENT AND MECHANICS OF TOXICITY, FUNGICIDES, NATURALLY - OCCURING AND SYNTHETIC INSECTICIDES, HERBICIDES, FUMIGANTS, SEED TREATMENT, SOIL TREATMENT, TRAPS, AND TREATMENT OF CENTERS AND VECTORS OF INFECTION. THE DETAILS OF ACTUAL METHODS OF PESTICIDE APPLICATION USED IN PRACTICE ARE NOT GIVEN. THE BOOK CONTAINS MUCH CHEMICAL INFORMATION AND MANY FORMULI. THERE ARE MANY REFERENCES.

AVAILABILITY: CRANE, RUSSAK, & CO., INC., 52 VANDERBILT AVE., NEW YORK, NY 100117 ($42.50)

IRIS ACCESSION NUMBER: EW005344

PUBLICATION DATE: 73

TITLE: THE DDT MYTH: TRIUMPH OF THE AMATEURS.

PERSONAL AUTHOR: BEATTY, RITA GRAY

DESCRIPTOR: *AGRICULTURAL CHEMICALS; *CHEMISTRY; *DDT; *ECOLOGY; ENVIRONMENT; LEGISLATION; *PESTICIDES; POLLUTION; *PUBLIC EDUCATION; *SAFETY; TRANSPORTATION

DESCRIPTIVE NOTE: 201P.

ABSTRACT: THIS BOOK, WRITTEN BY A PROFESSIONAL JOURNALIST, NOT A SCIENTIST, IS A RESULT OF MORE THAN TWO YEARS OF EFFORT TO RESOLVE THE TWO DDT MYTHS: "DDT IS THE GREATEST BLESSING EVER TO COME OUT OF A CHEMICAL LABORATORY" VERSUS "DDT WILL BE THE BANE OF MANKIND". THIS BOOK COMPARES FACT WITH FANCY; IT POINTS OUT BOTH STRENGTHS AND WEAKNESSES IN MODERN PEST-CONTROL PRACTICES; IT CHIDES THE CAMP FOLLOWER FOR IMPETUOSITY; IT CHIDES THE SCIENTIST FOR TACITURNITY; IT CHIDES THE AGRICULTURAL CHEMICALS INDUSTRY FOR FAILURE TO RECOGNIZE ADEQUATELY THAT THE PUBLIC HAS A RIGHT TO BE INFORMED ON MATTERS AFFECTING THEIR CONTINUED EXISTENCE ON A HOSPITABLE PLANET; IT CHIDES SOME GOVERNMENTAL AGENCIES FOR ELEMENTS OF DUPLICITY AND PROCRASTINATION; AND WITH ONE NOTABLE EXCEPTION IT REBUKES THE NEWS MEDIA FOR A STRONG TENDENCY TO ACCENTUATE THE "BAD" AND TO MINIMIZE THE "GOOD". AMONG THE TWELVE CHAPTERS OF THIS BOOK ARE THE FOLLOWING: "THE MOTHER'S MILK CONTROVERSY", "THE CANCER QUESTION", AND "IS THE SPRING SILENT". FINALLY, THE AUTHOR MAKES TEN RECOMMENDATIONS INCLUDING A RECOMMENDATION THAT "NO BAN ON THE USE, PRODUCTION, OR INTERSTATE SHIPMENT OF DDT BE ALLOWED, BUT RATHER THAT THE USES OF THIS PESTICIDE AND ALL PESTICIDES BE RESTRICTED TO SPECIFIC USES IN DESIGNATED AMOUNTS, AS DETERMINED BY A PANEL OF EXPERTS."

AVAILABILITY: THE JOHN DAY CO., 257 PARK AVE. S., NEW YORK, NY 10010 ($6.95)

IRIS ACCESSION NUMBER: EW005345

PUBLICATION DATE: 75

TITLE: HERBICIDES: CHEMISTRY, DEGRADATION, AND MODE OF ACTION, VOL. 1.

PERSONAL AUTHOR: KEARNEY, P. C. (EDITOR); KAUFMAN, D. D. (EDITOR)

DESCRIPTOR: AGRICULTURE; BIODEGRADATION; *CHEMICAL PROPERTIES; *CHEMISTRY; *COLLEGE SCIENCE; DEGRADATION; *ENVIRONMENT; *HERBICIDES; *INSTRUCTIONAL MATERIALS; ORGANIC COMPOUNDS; *PESTICIDES; *TEXTBOOKS

DESCRIPTIVE NOTE: 501P.

ABSTRACT: THIS BOOK IS AN UPDATED AND EXPANDED REVISION OF DEGRADATION OF HERICIDES (1969). THIS VOLUME ALONG WITH VOLUME TWO, REPRESENTS A COMPREHENSIVE COVERAGE OF ORGANIC HERBICIDES, AND SHOULD BE USEFUL TO SCIENTISTS, STUDENTS, AND GOVERNMENT AGENCIES AS WELL. THE FIRST VOLUME IS COMPRISED OF NINE CHAPTERS ON IMPORTANT CLASSES OF HERBICIDES. THE CHAPTERS COVER SUCH TOPICS AS PHYSICAL AND CHEMICAL PROPERTIES, SYNTHESIS, FORMULATION DEGRADATION IN PLANTS, SOILS AND ANIMALS, MODE OF ACTION, AND SELECTIVITY.

AVAILABILITY: MARCEL DEKKER, INC., 270 MADISON AVE., NEW YORK, NY 10016 ($39.50)

IRIS ACCESSION NUMBER: EW005346

PUBLICATION DATE: 76

TITLE: HERBICIDES: CHEMISTRY, DEGRADATION, AND MODE OF ACTION, VOL. 2.

PERSONAL AUTHOR: KEARNEY, P. C. (EDITOR); KAUFMAN, D. D. (EDITOR)

DESCRIPTOR: AGRICULTURE; ARSENICALS; BENZOIC ACIDS; *CHEMICAL PROPERTIES; *CHEMISTRY; *COLLEGE SCIENCE; *DEGRADATION; *HERBICIDES; *INSTRUCTIONAL MATERIALS; *ORGANIC COMPOUNDS; PHENOLS; *TEXTBOOKS; *VOLATILITY

DESCRIPTIVE NOTE: 535P.

ABSTRACT: THIS BOOK IS VOLUME TWO OF AN UPDATED AND EXPANDED REVISION OF DEGRADATION OF HERBICIDES (1969). TOGETHER WITH VOLUME ONE IT REPRESENTS A COMPREHENSIVE COVERAGE OF ORGANIC HERBICIDES, AND SHOULD BE USEFUL TO SCIENTISTS, STUDENTS, AND GOVERNMENT AGENCIES AS WELL. VOLUME TWO EXAMINES SEVEN CLASSES OF HERBICIDES AND THEN CONSIDERS TWO IMPORTANT PROCESSES AFFECTING HERBICIDES, PHOTODECOMPOSITION AND VOLATILIZATION.

AVAILABILITY: MARCEL DEKKER, INC., 270 MADISON AVE., NEW YORK, NY 10016 ($47.50)

IRIS ACCESSION NUMBER: EW005347

PUBLICATION DATE: 73

TITLE: MODE OF ACTION OF HERBICIDES.

PERSONAL AUTHOR: ASHTON, FLOYD M.; CRAFTS, ALDEN S.

DESCRIPTOR: AGRICULTURE; *BIODEGRADATION; BOTANY; CHEMICAL REACTIONS; ENVIRONMENT; *HERBICIDES; *INSTRUCTIONAL MATERIALS; *ORGANIC COMPOUNDS; *PESTICIDES; *POST SECONDARY EDUCATION; *TEXTBOOKS

DESCRIPTIVE NOTE: 504P.

ABSTRACT: THIS BOOK PROVIDES A BASIC INTRODUCTION TO THE PHYSIOLOGY AND BIOCHEMISTRY OF CHEMICAL WEED KILLERS, AND SUMMARIZES THE BODY OF INFORMATION THAT HAS BEEN ACQUIRED CONCERNING THE PROPERTIES, COMMERCIAL FORMS, AND FIELD USE OF SOME 150 PRODUCTS NOW AVAILABLE. IT SHOULD SERVE AS A TEXTBOOK FOR ADVANCED COURSES, A REFERENCE WORK FOR RESEARCHERS, AND A SOURCE OF MUCH DETAILED INFORMATION THAT IS NEEDED BY EXTENSION SPECIALISTS, CONTRACT APPLICATORS, SALESMEN, AND FARMERS USING HERBICIDES IN THE FIELD. THERE ARE 14 CHAPTERS ON CLASSES OF HERBICIDES AND EACH CHAPTER GIVES INFORMATION ON GROWTH AND PLANT STRUCTURE, ABSORPTION AND TRANSLOCATION, MOLECULAR FATE, BIOCHEMICAL RESPONSES, AND MODE OF ACTION.

AVAILABILITY: JOHN WILEY & SONS, INC., 605 THIRD AVENUE, NEW YORK, NY 10016 ($36.50)

IRIS ACCESSION NUMBER: EW005348

PUBLICATION DATE: 76

TITLE: CHEMICAL MUTAGENS: PRINCIPLES AND METHODS FOR THEIR DETECTION, VOL. 4.

PERSONAL AUTHOR: HOLLAENDER, A.

DESCRIPTOR: *BIOLOGY; *CHEMICAL ANALYSIS; *COLLEGE SCIENCE; *INSTRUCTIONAL MATERIALS; *MICROBIOLOGY; *ORGANIC COMPOUNDS; *PLANT PHYSIOLOGY; *POLLUTION; *TOXICOLOGY; *CHEMICAL MUTAGENS

DESCRIPTIVE NOTE: 364P.

ABSTRACT: THIS FOURTH VOLUME OF A SERIES ON CHEMICAL MUTAGENS CONTAINS CHAPTERS 35 TO 43 AND COVERS CYTOLOGICAL METHODS OF DETECTION, THE MICRONUCLEUS TEST, SEX-CHROMOSOME ANOMALIES IN MAMMALS, THE USE OF DROSOPHILA, PLANT SYSTEMS, THE USE OF INDIRECT INDICATOR SYSTEMS, N-NITROSO COMPOUNDS, ATMOSPHERIC MUTAGENS, AND CYTOGENETIC SURVEILLANCE OF INDUSTRIAL POPULATIONS.

AVAILABILITY: PLENUM PUB. CO., 227 WEST 117TH ST., NEW YORK, NY 10011 ($29.95)

IRIS ACCESSION NUMBER: EW005349

PUBLICATION DATE: 68

TITLE: WEED CONTROL.

DESCRIPTOR: AGRICULTURE; BIOLOGICAL CONTROL; ECOLOGY; ENVIRONMENT; *HERBICIDES; *INSTRUCTIONAL MATERIALS; ORGANIC COMPOUNDS; PESTICIDES; *POST SECONDARY EDUCATION; RESEARCH; *TEXTBOOKS; *WEEDS

DESCRIPTIVE NOTE: 471P.

ABSTRACT: THIS REPORT EXAMINES THE STATE OF KNOWLEDGE AND PRACTICE IN THE FIELD OF WEED CONTROL. IT IS CONCERNED BOTH WITH ESTABLISHED PRINCIPLES OF CONTROL AND WITH PRINCIPLES THAT TO SOME EXTENT ARE SPECULATIVE. IT PROPOSES LINES OF RESEARCH BUT DEALS WITH SPECIFIC PROBLEMS ONLY WHERE DOING SO CONTRIBUTES TO AN UNDERSTANDING OF BROADER ISSUES. THE BOOK IS WRITTEN FOR A READERSHIP CONSISTING OF ADMINISTRATORS OF SCIENCE PROGRAMS, SCIENTISTS IN WEED-CONTROL AND RELATED FIELDS, ADVANCED STUDENTS IN WEED SCIENCE, AND WEED-CONTROL TECHNOLOGISTS WHO ARE SEEKING TO BROADEN THEIR UNDERSTANDING OF CONTROL PRINCIPLES. ALTHOUGH PRIMARILY CONCERNED WITH PRINCIPLES, THE BOOK PROVIDES A GENERAL BASIS FOR SOLVING WEED PROBLEMS.

AVAILABILITY: NATIONAL ACADEMY OF SCIENCE, 2101 CONSTITUTION AVE., WASHINGTON, D.C. 20418 PRICE: $9.25

INSTITUTION NAME: NATIONAL ACADEMY OF SCIENCE.

IRIS ACCESSION NUMBER: EW005350

PUBLICATION DATE: 68

TITLE: PLANT-DISEASE DEVELOPMENT AND CONTROL.

DESCRIPTOR: AGRICULTURE; *BACTERIA; BIOLOGICAL CONTROL; *DISEASES; ENVIRONMENT; *FUNGI; *PLANT DISEASES; PLANT

PHYSIOLOGY; *REFERENCE BOOKS.
DESCRIPTIVE NOTE: 204P.

ABSTRACT: THIS VOLUME WAS PREPARED BY THE SUBCOMMITTEE ON PLANT PATHOGENS OF THE COMMITTEE ON PLANT AND ANIMAL PESTS OF THE NATIONAL ACADEMY OF SCIENCES. ITS MAJOR OBJECTIVES ARE TO IDENTIFY AND EXAMINE THE PRINCIPLES OF PLANT-DISEASE DEVELOPMENT AND CONTROL, TO OUTLINE THE CURRENT STATE OF KNOWLEDGE RELATED TO EFFECTIVE CONTROL, TO IDENTIFY GAPS IN EXISTING KNOWLEDGE THAT SHOULD BE FILLED IN THE NEAR FUTURE, AND TO PROVIDE EXAMPLES OF RECOGNIZED DISEASE-CONTROL INFORMATION AND REFERENCES TO SIGNIFICANT SUPPLEMENTARY LITERATURE. ALTHOUGH THE BOOK IS INTENDED FOR AN AUDIENCE OF PRACTICING PLANT PATHOLOGISTS, CHAPTERS HAVE BEEN PROVIDED DESCRIBING THE KINDS OF PATHOGENS AND ABIOTIC AGENTS THAT CAUSE PLANT DISEASE. THESE CHAPTERS MAY BE USEFUL TO STUDENTS.

AVAILABILITY: NATIONAL ACADEMY OF SCIENCES, 2101 CONSTITUTION AVE., WASHINGTON, D.C. 20418 PRICE: $6.00

INSTITUTION NAME: NATIONAL ACADEMY OF SCIENCES.

IRIS ACCESSION NUMBER: EW005351

PUBLICATION DATE: 69

TITLE: INSECT-PEST MANAGEMENT AND CONTROL.

DESCRIPTOR: AGRICULTURE; *BIOLOGICAL CONTROL; BIOLOGY; ECOLOGY; ECONOMICS; *ENTOMOLOGY; *INSECTICIDES; *INSTRUCTIONAL MATERIALS; ORGANIC COMPOUNDS; *PEST CONTROL; *PESTICIDES; *POST SECONDARY EDUCATION; *TEXTBOOKS

DESCRIPTIVE NOTE: 508P.

ABSTRACT: THE PURPOSE OF THIS BOOK IS TO PRESENT THE PRINCIPLES INVOLVED IN VARIOUS METHODS OF INSECT-PEST MANAGEMENT AND CONTROL. IT WAS PLANNED TO INTERPOLATE RECENT ATTITUDES AND PHILOSOPHIES WITH THE ESTABLISHED PRINCIPLES AND TECHNIQUES THAT HAVE SERVED AS THE FOUNDATION FOR PAST PEST-CONTROL PROGRAMS. THIS APPROACH INCLUDES AN INTRODUCTION TO THE ECOLOGICAL BACKGROUND UNDERLYING PEST MANAGEMENT, A DISCUSSION OF THE ENTIRE SPECTRUM OF CONTROL METHODOLOGY, AND THE BLENDING OF THESE METHODS INTO DYNAMIC SYSTEMS OF PEST MANAGEMENT. PRINCIPLES, BACKGROUND KNOWLEDGE, AND GUIDELINES ARE DISCUSSED TO SHOW THE TYPES OF CONTROL THAT MAY BE SUITABLE FOR REPRESENTATIVE INSECT-PEST PROBLEMS. THESE ARE CLARIFIED WITH EXAMPLES OF PEST CONTROL METHODS. THE INFORMATION IS INTENDED FOR USE IN SELECTING THE MOST PROMISING APPROACHES IN THE DEVELOPMENT OF EFFECTIVE PEST MANAGEMENT AND CONTROL MEASURES. THE TRAINING NEEDS AND GENERAL ORGANIZATIONAL STRUCTURE NECESSARY TO FOSTER FURTHER PROGRESS IN THE REFINEMENT AND APPLICATION OF THIS NEW PHILOSOPHY OF PEST CONTROL ARE DISCUSSED. ATTENTION IS ADDRESSED TO THE ECONOMIC RATIONALE CONCERNED WITH CONTROLLING PEST INFESTATIONS.

AVAILABILITY: NATIONAL ACADEMY OF SCIENCE, 2101 CONSTITUTION AVE., WASHINGTON, D.C. 20418 PRICE: $11.75

INSTITUTION NAME: NATIONAL ACADEMY OF SCIENCE.

IRIS ACCESSION NUMBER: EW005352

PUBLICATION DATE: 70

TITLE: VERTEBRATE PESTS: PROBLEMS AND CONTROL.

DESCRIPTOR: *AGRICULTURE; AQUATIC PEST CONTROL; *BIOLOGICAL CONTROL; ECOLOGY; *ENVIRONMENT; *INSTRUCTIONAL MATERIALS; LIVESTOCK; *MAMMALS; PEST CONTROL; *PESTICIDES; *POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: 153P.

ABSTRACT: SUMMARIZED ARE THE PROBLEMS AND TECHNIQUES OF CONTROLLING VERTEBRATE PESTS. IT COVERS PEST SITUATIONS WITH FISH, AMPHIBIANS AND REPTILES, BIRDS, SMALL MAMMALS, PREDATORY MAMMALS, AND BIG GAME MAMMALS. THE BOOK IDENTIFIES SPECIFIC ANIMALS AND SPECIFIC PROBLEMS THEY CAUSE, AND DISCUSSES BIOLOGICAL, PHYSICAL, AND CHEMICAL METHODS OF CONTROL. FINALLY, THE BOOK PRESENTS RESEARCH NEEDS, TRAINING, ETHICS, AND REGULATORY ASPECTS OF ANIMAL CONTROL.

AVAILABILITY: NATIONAL ACADEMY OF SCIENCE, 2101 CONSTITUTION AVE., WASHINGTON, D.C. 20418 PRICE: $6.00

INSTITUTION NAME: NATIONAL ACADEMY OF SCIENCE.

IRIS ACCESSION NUMBER: EW005353

PUBLICATION DATE: 72

TITLE: PEST CONTROL: STRATEGIES FOR THE FUTURE.

DESCRIPTOR: *AGRICULTURE; *BIOLOGICAL CONTROL; CONFERENCES; ECOLOGY; ECONOMICS; *ENVIRONMENT; HEALTH; *INSTRUCTIONAL MATERIALS; *PEST CONTROL; *PESTICIDES; POST SECONDARY EDUCATION; *INTEGRATED PEST MANAGEMENT

DESCRIPTIVE NOTE: 376P.

ABSTRACT: THIS BOOK IS THE RESULT OF A SYMPOSIUM THAT SUMMARIZES THE PRESENT STATE OF KNOWLEDGE IN THE AREA OF PEST CONTROL, AND ANALYZES AVAILABLE INFORMATION IN THE LIGHT OF PUBLIC CONCERN. IT ALSO EXAMINES CHANGES IN OR ALTERNATIVES TO THE USE OF PESTICIDES, AND DISCUSSES THE USE OF PESTICIDES IN CONJUNCTION WITH OTHER PEST CONTROL METHODS. THE PAPERS ARE ORGANIZED INTO THE FOLLOWING FIVE GENERAL HEADINGS: PEST CONTROL AND HUMAN ECOLOGY, SYSTEMS APPROACH TO PEST CONTROL, STRATEGIES FOR BETTER CHEMICAL CONTROL, ALTERNATIVE MEANS TO PEST CONTROL, AND CHALLENGE - EFFECTIVE PEST MANAGEMENT STRATEGIES CONSISTENT WITH ENVIRONMENTAL QUALITY.

AVAILABILITY: NATIONAL ACADEMY OF SCIENCE, 2101 CONSTITUTION AVE., WASHINGTON, D.C. 20418 ($7.00)

INSTITUTION NAME: NATIONAL ACADEMY OF SCIENCE.

IRIS ACCESSION NUMBER: EW005354
PUBLICATION DATE: 68

TITLE: EFFECTS OF PESTICIDES ON FRUIT AND VEGETABLE PHYSIOLOGY.

DESCRIPTOR: AGRICULTURE; *BOTANY; ECOLOGY; *ENVIRONMENT; *PESTICIDES; *PLANT PHYSIOLOGY; *RESEARCH; *VEGETABLES

DESCRIPTIVE NOTE: 90P.

ABSTRACT: THE MAJOR OBJECTIVES OF THIS REPORT ARE TO PRESENT SOME BASIC PRINCIPLES INVOLVED IN THE SECONDARY EFFECTS, BOTH BENEFICIAL AND DETRIMENTAL, OF PESTICIDES ON THE PHYSIOLOGY OF THE HOST PLANT, TO EMPHASIZE THE IMPORTANCE OF THESE EFFECTS, AND TO ENCOURAGE ADDITIONAL INVESTIGATIONS DESIGNED SPECIFICALLY TO ELUCIDATE THEM. THE REPORT COVERS THE EFFECTS OF PESTICIDES ON SEED GERMINATION; VEGETATIVE GROWTH; DEVELOPMENT OF VEGETATIVE STORAGE ORGANS; SEXUAL REPRODUCTION; MATURATION, HARVEST, AND POST-HARVEST PHYSIOLOGY; AND MARKET QUALITY.

AVAILABILITY: NATIONAL ACADEMY OF SCIENCE, 2101 CONSTITUTION AVE., WASHINGTON, D.C. 20418 PRICE: $4.50

INSTITUTION NAME: NATIONAL ACADEMY OF SCIENCE.

IRIS ACCESSION NUMBER: EW005355

PUBLICATION DATE: APR 77

TITLE: ALFALFA WEEVIL PEST MANAGEMENT PROGRAM

DESCRIPTOR: *AGRICULTURAL PRODUCTION; *BIOLOGICAL CONTROL; *ENTOMOLOGY; ENVIRONMENTAL RESEARCH; GUIDES; *INSTRUCTIONAL MATERIALS; NATURAL RESOURCES; *PESTICIDES; POST SECONDARY EDUCATION; *ALFALFA WEEVIL

DESCRIPTIVE NOTE: 7P. CIRCULAR 1136

ABSTRACT: THIS CIRCULAR PROVIDES PRACTICAL INFORMATION ON CONTROLLING THE EFFECTS OF THE ALFALFA WEEVIL. THE MANAGEMENT PROGRAM CONSIDERS NATURAL AND CHEMICAL CONTROL MEASURES AVAILABLE. STRESS IS GIVEN TO MEASURING ENVIRONMENTAL FACTORS SUCH AS WEATHER AND SOIL CONDITIONS, STAGE OF PLANT GROWTH, AND WEEVIL POPULATION DENSITY, BEFORE A MANAGEMENT PLAN IS UNDERTAKEN.

AVAILABILITY: UNIV OF ILLINOIS AT URBANA-CHAMPAIGN, COLLEGE OF AGRICULTURE, COOPERATIVE EXT. SERVICE, URBANA, IL 61801

INSTITUTION NAME: COLLEGE OF AGRICULTURE, COOPERATIVE EXT. SERVICE.

IRIS ACCESSION NUMBER: EW005356

PUBLICATION DATE: APR 78

TITLE: POLLUTANTS AND HIGH RISK GROUPS.

PERSONAL AUTHOR: CALABRESE, EDWARD J.
DESCRIPTOR: AIR POLLUTION; *ENVIRONMENTAL INFLUENCES; ENVIRONMENTAL RESEARCH; GENETICS; *INSTRUCTIONAL MATERIALS; NUTRITION; *OCCUPATIONAL DISEASES; PESTICIDES; *POLLUTION; *PUBLIC HEALTH; *TOXICITY

DESCRIPTIVE NOTE: 256P.

ABSTRACT: THIS BOOK PRESENTS A SYNTHESIS OF BIOMEDICAL LITERATURE IN WHICH THE NUMEROUS HYPERSUSCEPTIBLE SEGMENTS OF THE POPULATION WITH RESPECT TO POLLUTANT TOXICITY HAVE BEEN IDENTIFIED. BIOLOGICAL FACTORS SUCH AS CERTAIN DEVELOPMENTAL PROCESSES, GENETIC DISORDERS, NUTRITIONAL DEFICIENCIES, DISEASE PROCESSES, AND BEHAVIORAL FACTORS WHICH PREDISPOSE INDIVIDUALS TO THE TOXIC EFFECTS OF POLLUTANTS ARE DISCUSSED IN DETAIL. THE FINAL CHAPTERS INTERPRET THE ROLE OF HIGH-RISK GROUPS IN THE DEVELOPMENT OF ENVIRONMENTAL AND OCCUPATIONAL HEALTH POLICIES. A GLOSSARY AND BIBLIOGRAPHY ARE INCLUDED FOR REFERENCE.

AVAILABILITY: JOHN WILEY 8 SONS, ONE WILEY DR., SOMERSET, N.J. 08873 ($17.50)

IRIS ACCESSION NUMBER: EW005357

PUBLICATION DATE: 72

TITLE: ACCEPTABLE COMMON NAMES AND CHEMICAL NAMES FOR THE INGREDIENT STATEMENT ON PESTICIDE LABELS.

DESCRIPTOR: *CHEMICAL NAMES; *CHEMICAL NOMENCLATURE; *GUIDES; *PESTICIDES; VOCABULARY

DESCRIPTIVE NOTE: 243P.

ABSTRACT: THIS DOCUMENT CONTAINS THE LIST OF ACCEPTABLE COMMON AND CHEMICAL NAMES WHICH MAY BE USED ON PESTICIDE LABEL INGREDIENT STATEMENTS. THIS EDITION INCLUDES A LARGE NUMBER OF TRADE NAMES AND NAMES USED IN OTHER COUNTRIES, BUT GENERALLY THE NAMES ARE EITHER THOSE LISTED IN CHEMICAL ABSTRACTS OR THOSE WHICH HAVE BEEN LONG ACCEPTED AND ARE MOST INFORMATIVE.

AVAILABILITY: PESTICIDES REGULATION DIVISON, OFFICE OF PESTICIDAL PROGRAMS, ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C.

INSTITUTION NAME: U.S. ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW005358

PUBLICATION DATE: 72

TITLE: FATE OF PESTICIDES IN ENVIRONMENT. VOL. VI.

PERSONAL AUTHOR: ALEXANDER, SHALOM

DESCRIPTOR: BIOCHEMISTRY; *ECOLOGY; *ENVIRONMENTAL

INFLUENCES; *ENVIRONMENTAL RESEARCH; HERBICIDES; NATURAL RESOURCES; *ORGANIC CHEMISTRY; CHEMISTRY; PLANT GROWTH; SOIL SCIENCE

DESCRIPTIVE NOTE: 572P.

ABSTRACT: THIS BOOK PRESENTS THE PROCEEDINGS OF THE SECOND INTERNATIONAL IUPAC CONGRESS OF PESTICIDE CHEMISTRY. THE TEXT DISCUSSES THE RESEARCH FOR THE PRODUCTION OF SAFER PESTICIDES. TOPICS INCLUDED ARE: THE FATE OF PESTICIDES IN SOIL; CHEMISTRY AND METABOLISM OF TERMINAL RESIDUES OF ORGANOCHLORINE COMPUNDS, ORGANOPHOSPHORUS COMPOUNDS, CARBAMATES, AND FUNGICIDES; RADIOACTIVE TRACERS IN FOOD CHAIN STUDIES; AND CHEMICAL AND TOXICOLOGICAL DATA ON RESIDUE TOLERANCES IN MAMMALS.

AVAILABILITY: GORDON AND BREACH SCIENCE PUB., 12 BLOOMSBURY WAY, LONDON, WC 1, ENGLAND

IRIS ACCESSION NUMBER: EW005359

PUBLICATION DATE: 66

TITLE: SCIENTIFIC ASPECTS OF PEST CONTROL.

DESCRIPTOR: AGRICULTURAL PRODUCTION; BIOLOGY; ECOLOGY; *ENTOMOLOGY; *ENVIRONMENTAL INFLUENCES; NATURAL RESOURCES; *PESTICIDES; *PESTS; PUBLIC HEALTH; WEEDS

DESCRIPTIVE NOTE: 470P.

ABSTRACT: THIS DOCUMENT PRESENTS THE INFORMATION MADE AVAILABLE AT A SYMPOSIUM ORGANIZED BY THE NATIONAL ACADEMY OF SCIENCES (NATIONAL RESEARCH COUNCIL) TO REVIEW ADVANCES IN PEST CONTROL, ESPECIALLY AS IT RELATES TO MAN AND THE ENVIRONMENT. PROVIDED IS A DISCUSSION OF EFFECTIVE METHODS OF PEST CONTROL, THE DESIGN AND USE OF PEST CONTROL EQUIPMENT, PREVENTIVE MEASURES, AND INTEGRATED SYSTEMS OF CONTROL. INFORMATION IS PROVIDED ON THE PERSISTENCE OF PESTICIDES IN THE ENVIRONMENT AS WELL AS AN ASSESSMENT OF HUMAN HEALTH IN RELATION TO PEST CONTROL. THE LAST PART OF THE BOOK DISCUSSES THE FUNCTIONS OF FEDERAL AND STATE AGENCIES IN RELATION TO ALL FACETS OF PEST CONTROL.

AVAILABILITY: NATIONAL ACADEMY OF SCIENCES, 2101 CONSTITUTION AVE., WASHINGTON, D.C. 20418

INSTITUTION NAME: NATIONAL ACADEMY OF SCIENCES.

IRIS ACCESSION NUMBER: EW005360

PUBLICATION DATE: 75

TITLE: PESTICIDES OF THE FUTURE.

PERSONAL AUTHOR: (EDITOR) JACOBSON, MARTIN.

DESCRIPTOR: BIOLOGY; *ENTOMOLOGY; ENVIRONMENTAL INFLUENCES; *ENVIRONMENTAL RESEARCH; *GENETICS; INSECTICIDES; NATURAL RESOURCES; *PESTICIDES; *PHYSIOLOGY

DESCRIPTIVE NOTE: 104P.

ABSTRACT: THIS DOCUMENT IS A COLLECTION OF ARTICLES DEALING WITH FIELD AND LABORATORY RESEARCH ON INSECT SUPPRESSION. THE APPROACHES DISCUSSED INCLUDE CONTROL BY MEANS OF NATURAL PREDATORS, PARASITES, AND PATHOGENS, SEXUAL STERILIZATION, SEX PHEROMONES, AND INSECT GROWTH REGULATORS. EACH ARTICLE IS PRECEEDED BY A LISTING OF KEY WORDS AND A BRIEF ABSTRACT. A LIST OF REFERENCES IS INCLUDED FOR EACH ARTICLE.

AVAILABILITY: MARCEL DEKKER, 270 MADISON AVE., NEW YORK, NY 10016

IRIS ACCESSION NUMBER: EW005361

PUBLICATION DATE: 73

TITLE: MASS SPECTROMETRY OF PESTICIDES AND POLLUTANTS.

PERSONAL AUTHOR: SAFE, S.; HUTZINGER, O.

DESCRIPTOR: *CHEMICAL ANALYSIS; CHEMISTRY; CHROMATOGRAPHY; COMPOSITION MEASUREMENT; *ENVIRONMENTAL RESEARCH; *INSTRUCTIONAL MATERIALS; LABORATORY PROCEDURES; *PESTICIDES; *POLLUTION; *SPECTROMETRY; SCIENTIFIC RESEARCH

DESCRIPTIVE NOTE: 220P.

ABSTRACT: THIS BOOK PRESENTS A COLLECTION AND DISCUSSION OF THE PUBLISHED INFORMATION ON THE MASS SPECTROMETRY OF PESTICIDES AND POLLUTANTS. THE DATA IS ARRANGED ACCORDING TO CHEMICAL FUNCTIONALITY AND MASS SPECTRA AND FRAGMENTATION PATTERNS ARE DISCUSSED. IDENTIFICATION OF PHOTO AND METABOLIC PRODUCTS IS ALSO INCLUDED. A LIST OF COMMON AND CHEMICAL NAMES IS PROVIDED IN THE INDEX.

AVAILABILITY: CRC PRESS, 18901 CRANWOOD PKWAY, CLEVELAND, OH 44128 ($39.95)

IRIS ACCESSION NUMBER: EW005362

PUBLICATION DATE: 76

TITLE: MAN'S PLAGUE? INSECTS AND AGRICULTURE.

PERSONAL AUTHOR: DETHIER, V. G.

DESCRIPTOR: AGRICULTURAL PRODUCTION; *BIOLOGICAL SCIENCE; DISEASE; *ECOLOGY; *ENTOMOLOGY; ENVIRONMENTAL INFLUENCES; *PESTICIDES; *PESTS; PLANTS; *BIOLOGICAL CONTROL

DESCRIPTIVE NOTE: 237P. AVAILABLE ON LOAN FROM NATIONAL TRAINING AND OPERATIONAL TECHNOLOGY CENTER, U.S. EPA, 26 W. ST. CLAIR, CINCINNATI, OH 45268

ABSTRACT: THIS BOOK INQUIRES INTO THE RELATIONSHIP OF INSECTS, CROP PLANTS, AND MAN. IT DISCUSSES THE COMPETITION AND STRUGGLE AMONG THEM AND THE CONSEQUENCES TO THE ENVIRONMENT AND AGRICULTURAL PRODUCTION AS A RESULT OF MAN'S CURRENT ACTIVITIES. A CASE IS MADE FOR NATURAL BIOLOGICAL

CONTROL OF INSECTS AND A PRESERVATION OF ENVIRONMENTAL QUALITY. EACH CHAPTER CONTAINS A BIBLIOGRAPHY FOR REFERENCE.

AVAILABILITY: THE DARWIN PRESS, PRINCETON, NJ ($9.95)

IRIS ACCESSION NUMBER: EW005363

PUBLICATION DATE: 64

TITLE: BIOLOGICAL CONTROL OF INSECT PESTS AND WEEDS.

PERSONAL AUTHOR: (EDITOR) DEBACH, PAUL

DESCRIPTOR: AGRICULTURAL PRODUCTION; BIOLOGY; ECOLOGY; *ENTOMOLOGY; ENVIRONMENTAL INFLUENCES; ENVIRONMENTAL RESEARCH; *INSTRUCTIONAL MATERIALS; NATURAL RESOURCES; *PEST CONTROL; *PESTS; POST SECONDARY EDUCATION; *WEEDS; *BIOLOGICAL CONTROL

DESCRIPTIVE NOTE: 844P.

ABSTRACT: SECTION ONE DEFINES BIOLOGICAL CONTROL AND DISCUSSES ITS IMPORTANCE AND HISTORICAL DEVELOPMENT. SECTION TWO EMPHASIZES THE FUNDAMENTALS OF POPULATION ECOLOGY AND NATURAL CONTROL. THE BIOLOGY, HABITS, AND IDENTIFICATION OF ORGANISMS UTILIZED IN BIOLOGICAL CONTROL RESEARCH ARE DISCUSSED IN SECTION THREE. SECTIONS FOUR AND FIVE DISCUSS THE EFFECTIVENESS OF NEW AND ESTABLISHED NATURAL ENEMIES. THE LAST SECTIONS, SIX AND SEVEN, DEAL WITH THE SPECIALIZED PHASES OF INSECT PATHOLOGY AND BIOLOGICAL CONTROL OF WEEDS. A COMPLETE INDEX TO SCIENTIFIC NAMES IS PROVIDED IN THE APPENDIX AS ARE 2500 LITERATURE REFERENCES.

AVAILABILITY: VAN NOSTRAND REINHOLD. LITTON EDUCATIONAL PUBLISHING CO. 7625 EMPIRE DR., FLORENCE, KY 41042

IRIS ACCESSION NUMBER: EW005364

PUBLICATION DATE: 64

TITLE: THE PHYSIOLOGY AND BIOCHEMISTRY OF HERBICIDES.

PERSONAL AUTHOR: (EDITOR) AUDUS, L.J.

DESCRIPTOR: AGRICULTURAL PRODUCTION; CHEMISTRY; ENVIRONMENTAL INFLUENCES; *ENVIRONMENTAL RESEARCH; *HERBICIDES; *MEASUREMENT TECHNIQUES; PESTICIDES; PLANT GROWTH; *PLANT PATHOLOGY; *SOIL SCIENCE

DESCRIPTIVE NOTE: 555P.

ABSTRACT: THIS BOOK PROVIDES A BASIC UNDERSTANDING OF THE FUNDAMENTAL ACTIONS OF HERBICIDES AND THE NEED FOR BASIC STUDIES IN PLANT PHYSIOLOGY AND BIOCHEMISTRY. THE THREE MAIN SECTIONS OF THE BOOK DEAL WITH THE BEHAVIOR OF THE APPLIED HERBICIDE, THE BEHAVIOR OF THE AFFECTED PLANT AND THE CHARACTERISTICS OF HERBICIDE AND PLANT BEHAVIOR AS THEY AFFECT OR DETERMINE PLANT SENSITIVITY AND HERBICIDE SELECTIVITY. A SUMMARY AND LIST OF REFERENCES IS INCLUDED FOR EACH CHAPTER. THE APPENDIX INCLUDES A GLOSSARY OF COMMON NAMES AND ABBREVIATIONS FOR HERBICIDES.

AVAILABILITY: ACADEMIC PRESS, 111 FIFTH AVE., NEW YORK, NY

IRIS ACCESSION NUMBER: EW005365

PUBLICATION DATE: 75

TITLE: EPIDEMICS OF PLANT DISEASES: MATHEMATICAL ANALYSIS AND MODELING.

PERSONAL AUTHOR: KRANZ, JURGEN (EDITOR)

DESCRIPTOR: *AGRICULTURAL PRODUCTION; *BOTANY; COMPUTERS; DATA PROCESSING; *DISEASE; ENVIRONMENT; *MATHEMATICAL MODELS; MEASUREMENT; *PLANT PATHOLOGY; POLLUTION; *RESEARCH; STATISTICS

DESCRIPTIVE NOTE: 170P.

ABSTRACT: THIS BOOK PRESENTS AN OUTLINE OF THE RECORD OF ACHIEVEMENT TO DATE IN THE USE OF MATHEMATICAL ANALYSIS AND COMPUTER TECHNIQUES IN THE STUDY OF EPIDEMICS OF PLANT DISEASES. PRACTICAL PRODEDURES SUCH AS CODING TECHNIQUES, COMPUTER PROGRAMS, MULTIPLE REGRESSION ANALYSIS, DISEASE INCREASE AND SEVERITY, CYCLES, AND CROP LOSSES ARE DISCUSSED. MATHEMATICAL AND SIMULATION MODELS ARE PRESENTED AND EXPERIENCES AND PROBLEMS IN DEVELOPING AND USING THEM ARE REPORTED.

AVAILABILITY: SPRINGER - VERLAG NEW YORK, INC., 175 FIFTH AVENUE, NEW YORK, NY 10010 ($24.60)

IRIS ACCESSION NUMBER: EW005366

PUBLICATION DATE: 74

TITLE: PEST CONTROL: A SURVEY.

PERSONAL AUTHOR: WOODS, ARTHUR

DESCRIPTOR: *BIOLOGICAL INFLUENCES; BIBLIOGRAPHIES; ENTOMOLOGY; ENVIRONMENTAL INFLUENCES; *GENETICS; *PESTICIDES; *PESTS; RESEARCH REVIEW; *SAFETY; WEEDS; *BIOLOGICAL CONTROL

ABSTRACT: THIS BOOK DISCUSSES THE TECHNOLOGY OF PEST CONTROL. VARIOUS CONTROL METHODS ARE DESCRIBED, WITH EXAMPLES TO HELP ESTIMATE THEIR EFFECTIVENESS. PEST CONTROL THAT IS ECONOMICAL AND ENVIRONMENTALLY SAFE IS STRESSED THROUGHOUT THE TEXT. THE FIRST HALF OF THE BOOK DISCUSSES PESTS, THEIR IMPORTANCE AND THE USE OF CHEMICAL PESTICIDES. THE SECOND HALF DISCUSSES BIOLOGICAL CONTROL MEASURES AND CULTURAL METHODS OF PEST CONTROL. A REVIEW OF THE LITERATURE IS PROVIDED FOR REFERENCE.

AVAILABILITY: JOHN WILEY 8 SONS, ONE WILEY DR., SOMERSET, NJ 08873 (29.50)

IRIS ACCESSION NUMBER: EW005367
PUBLICATION DATE: 75

TITLE: WEED SCIENCE: PRINCIPLES AND PRACTICES.

PERSONAL AUTHOR: KLINGMAN, GLENN C.; ASHTON, FLOYD M.

DESCRIPTOR: *AGRICULTURAL PRODUCTION; CHEMISTRY; ENVIRONMENT; FIELD CROPS; *HERBICIDES; *INSTRUCTIONAL MATERIALS; LAND USE; ORNAMENTAL HORTICULTURE; *PESTICIDES; *POST SECONDARY EDUCATION; *WEEDS

DESCRIPTIVE NOTE: 431P.

ABSTRACT: THIS TEXTBOOK DISCUSSES THE CURRENT PRINCIPLES AND PRACTICES OF WEED SCIENCE. INCLUDED ARE CHAPTERS DEALING WITH THE BIOLOGY OF WEEDS; HERBICIDE FORMULATION AND SELECTION; AND USE IN AGRICULTURAL PRODUCTION OF ROW CROPS, VEGETABLES, PASTURES, WOODLOTS, FRUIT GROVES, AND AQUATIC CONDITIONS. SAFETY PRECAUTIONS FOR BOTH APPLICATOR AND THE ENVIRONMENT ARE STRESSED.

AVAILABILITY: JOHN WILEY & SONS, ONE WILEY DR., SOMERSET, NJ 08873 ($16.75)

IRIS ACCESSION NUMBER: EW005368

PUBLICATION DATE: 74

TITLE: BIOLOGICAL CONTROL BY NATURAL ENEMIES.
PERSONAL AUTHOR: DEBACH, PAUL

DESCRIPTOR: *AGRICULTURE; BIOLOGICAL SCIENCES; *ECOLOGY; *ENVIRONMENT; *ENTOMOLOGY; INSECTICIDES; *INSTRUCTIONAL MATERIALS; *PESTICIDES; POST SECONDARY EDUCATION; SCIENCES; *BIOLOGICAL CONTROL

DESCRIPTIVE NOTE: 323P.

ABSTRACT: THE MAIN PURPOSE OF THIS BOOK IS TO OUTLINE THE WORKINGS AND POTENTIALITIES OF BIOLOGICAL CONTROL OF PESTS FOR THE GENERAL READER AND STUDENT INTERESTED IN ENVIRONMENTAL PHENOMENA. THE AUTHOR SUGGESTS THAT WE CAN MAINTAIN, IMPROVE, AND WHEN NECESSARY, INCREASE BIOLOGICAL CONTROL, PESTICIDE USAGE CAN BE VERY GREATLY REDUCED OVERALL AND AT TIMES, PLACES, AND ON CERTAIN CROPS DISPENSED WITH ENTIRELY. THE BOOK CONTAINS CHAPTERS ON FOSTERING PESTS THROUGH MISUSE OF CHEMICALS, PESTS AND THEIR NATURAL ENEMIES, BIOLOGICAL CONTROL ECOLOGY, MAXIMIZING BIOLOGICAL CONTROL THROUGH RESEARCH, UTILIZATION BY THE PUBLIC, AND RELATED TOPICS.

AVAILABILITY: CAMBRIDGE UNIV. PRESS, 32 E. 57TH ST., NEW YORK, NY 10022 ($19.95; PAPER-$7.95)

IRIS ACCESSION NUMBER: EW005369
PUBLICATION DATE: 76

TITLE: PESTICIDES IN THE ENVIRONMENT. VOLUME 2.

PERSONAL AUTHOR: WHITE-STEVENS, ROBERT, ED.

DESCRIPTOR: *AGRICULTURAL CHEMICALS; BACTERICIDES; *ENVIRONMENT; ECOLOGY; FUNGICIDES; FIELD CROPS; *INSTRUCTIONAL MATERIALS; LIVESTOCK; NEMATICIDES; *PESTICIDES; *POST SECONDARY EDUCATION.

DESCRIPTIVE NOTE: 458P.

ABSTRACT: THIS BOOK CONSIDERS FOUR ASPECTS OF THE USE OF PESTICIDES FROM THE POINT OF VIEW OF PRACTICAL FIELD USAGE. VOLUME ONE DEALS WITH FUNGAL AND BACTERIAL DISEASES WHICH ATTACK DOMESTIC CROP PLANTS. VOLUME TWO DEALS WITH NEMATODE (SOUND WORM) INFESTATION OF CROP PLANTS. VOLUME THREE DISCUSSES THE PRACTICAL ASPECTS OF PEST CONTROL AMONG HOME GARDENS, PUBLIC PARKLAND, AND HIGHWAY ORNAMENTAL PLANTINGS. VOLUME FOUR OUTLINES THE ROLE OF PESTICIDES IN THE CONTROL OF ECTOPARASITES IN DOMESTIC LIVESTOCK AND PETS.

AVAILABILITY: MARCEL DEKKER, INC. 270 MADISON AVE., NEW YORK NY 10016 PRICE: $37.50.

IRIS ACCESSION NUMBER: EW005370

PUBLICATION DATE: 78
TITLE: ESSENTIALS OF TOXICOLOGY. THIRD EDITION.

PERSONAL AUTHOR: LOOMIS, TED A

DESCRIPTOR: *ANALYTICAL TECHNIQUES; ANTIDOTES; *BIOLOGY; *CHEMISTRY; GENETICS; *INSTRUCTIONAL MATERIALS; LABORATORY TECHNIQUES; POLLUTION; POLLUTANTS; POST SECONDARY EDUCATION; *TOXICITY; *TOXICOLOGY; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 245P.

ABSTRACT: THIS IS AN INTRODUCTORY TEXTBOOK PRESENTING THE GENERAL PRINCIPLES OF TOXICOLOGY BUT LIMITING THE EXTENT OF DETAIL. THE CHAPTER TITLES ARE AS FOLLOWS: (1) INTRODUCTION AND SCOPE; (2) NUMBERS IN TOXICOLOGY; (3) BIOLOGIC FACTORS THAT INFLUENCE TOXICITY; (4) CHEMICAL FACTORS THAT INFLUENCE TOXICITY; (5) INFLUENCE OF ROUTE OF ADMINISTRATION ON TOXICITY; (6) GENETIC FACTORS THAT INFLUENCE TOXICITY; (7) CLASSIFICATION OF HARMFUL EFFECTS OF CHEMICALS; (8) NORMAL TOXIC EFFECTS OF CHEMICALS; (9) ABNORMAL RESPONSE TO CHEMICALS; (10) THE BASIS OF SELECTIVE TOXICITY; (11) THE BASIS OF ANTIDOTAL THERAPY; (12) PRINCIPLES OF BIOLOGICAL TESTS FOR TOXICITY AND TOXICOLOGIC TESTING METHODS.

AVAILABILITY: LEO & FEBIGER, 6TH AVENUE 600 WASHINGTON SQUARE, PHILADELPHIA, PA 19106 ($12.50)

IRIS ACCESSION NUMBER: EW005371
PUBLICATION DATE: 73

TITLE: PYRETHRUM: THE NATURAL INSECTICIDE.

PERSONAL AUTHOR: CASIDA, JOHN E. (EDITOR)

DESCRIPTOR: *AGRICULTURAL PRODUCTION; *BIOCHEMISTRY; CHEMISTRY; *ENTOMOLOGY; ENVIRONMENTAL INFLUENCES; FORESTRY; *NATURAL RESOURCES; *PESTICIDES; TOXICOLOGY; WILDLIFE; *PYRETHRUM

DESCRIPTIVE NOTE: AVAILABLE ON LOAN FROM NATIONAL TRAINING AND OPERATIONAL TECHNOLOGY CENTER, U.S. EPA, 26 W. ST. CLAIR, CINCINNATI, OH 45268.

ABSTRACT: THIS BOOK IS BASED ON PAPERS PRESENTED AT AN INTERNATIONAL SYMPOSIUM (1972) WHICH FOCUSED ON PYRETHRUM, THE NATURAL INSECTICIDE. THE CHAPTERS DEAL WITH ALL FACETS OF PYRETHRUM, RANGING FROM THE CULTURE OF PYRETHRUM PLANTS TO THE USE OF EXTRACTS TO CONTROL CROP PESTS, FROM THE CHEMICAL AND BIOLOGICAL STABILITY TO PYRETHRUM PERSISTENCE AS RESIDUES. THE ACTION OF PYRETHRUM ON THE INSECT NERVOUS SYSTEM AND TOXICITY TO MAMMALS IS DISCUSSED ALSO. EACH CHAPTER CONTAINS A LIST OF BIBLIOGRAPHIC REFERENCES.

AVAILABILITY: ACADEMIC PRESS, 111 FIFTH AVE., NEW YORK, NY 10003 ($24.75)

IRIS ACCESSION NUMBER: EW005372

PUBLICATION DATE: 76

TITLE: CARBAMATE INSECTICIDES: CHEMISTRY, BIOCHEMISTRY, & TOXICOLOGY.

PERSONAL AUTHOR: KUHR, R. J.; DOROUGH, H. W.

DESCRIPTOR: BIOCHEMISTRY; *ENTOMOLOGY; ENVIRONMENTAL INFLUENCES; *ENVIRONMENTAL RESEARCH; INSECTICIDES; ORGANIC CHEMISTRY; *PESTICIDES; *PHYSIOLOGY; RESEARCH METHODOLOGY; TOXICOLOGY

DESCRIPTIVE NOTE: 301P.

ABSTRACT: THIS BOOK DISCUSSES THE STATE-OF-THE-ART OF CARBAMATE INSECTICIDE RESEARCH. THE TEXT INCLUDES INFORMATION ABOUT CARBAMATE SYNTHESIS AND RESIDUE METHODOLOGY, THE MODE OF ACTION, METABOLISM, AND METABOLIC REACTIONS OF CARBAMATES; AND THE TOXICOLOGY TO BOTH TARGET AND NONTARGET ORGANISMS. CONSIDERATIONS ARE GIVEN FOR THE BIOLOGICAL AND ENVIRONMENTAL STABILITY OF CARBAMATE INSECTICIDES. A LIST OF MAJOR REFERENCES IS INCLUDED.

AVAILABILITY: CRC PRESS, 18901 CRANWOOD PKWY., CLEVELAND, OH 44128 ($57.50)

IRIS ACCESSION NUMBER: EW005373
PUBLICATION DATE: 77

TITLE: BIOCHEMICAL INSECT CONTROL.

PERSONAL AUTHOR: QURAISHI, M. SAYEED

DESCRIPTOR: AGRICULTURE; *BIOCHEMISTRY; COST EFFECTIVENESS; ECOLOGY; *ENTOMOLOGY; *ENVIRONMENT; ENVIRONMENTAL INFLUENCES; INSECTICIDES; ORGANIC CHEMISTRY; *PESTICIDES; PUBLIC HEALTH; ZOOLOGY; *TOXICOLOGY

DESCRIPTIVE NOTE: 280P.

ABSTRACT: THIS BOOK PRESENTS A BROAD PICTURE OF INSECTICIDES IN RELATION TO INSECTS, MAN, AND OTHER LIVING ORGANISMS. SPECIAL EMPHASIS IS PLACED ON INTERACTIONS OF INSECTICIDAL CHEMICALS AND INSECTS, THE RESPONSES OF LIVING ORGANISMS TO THE PRESENCE OF INSECTICIDES IN THE ENVIRONMENT, AND THE COST BENEFIT EQUATION. SPECIFIC TOPICS INCLUDE: INSECTICIDES OF PLANT ORIGIN; DDT AND RELATED CHEMICALS; CHEMOSTERILANTS; PHEROMONES AND HORMONES; RESISTANCE MECHANISMS; AND NATURAL VERSUS ARTIFICAL SELECTION.

AVAILABILITY: JOHN WILEY & SONS, ONE WILEY DR., SOMERSET, NJ 08873 ($21.25)

IRIS ACCESSION NUMBER: EW005374

PUBLICATION DATE: 76

TITLE: PESTICIDES AND HUMAN WELFARE.

PERSONAL AUTHOR: GUNN, D. L.; STEVENS, J. G. R.

DESCRIPTOR: *AGRICULTURE; *CROPS; DISEASE CONTROL; *ECONOMICS; *ENVIRONMENTAL EFFECT; GRAIN CROPS; LIVESTOCK; *PESTICIDES; *TOXICITY

DESCRIPTIVE NOTE: 278P.

ABSTRACT: THIS BOOK, WHICH PRESENTS TWENTY CHAPTERS BY DIFFERENT AUTHORS ON VARIOUS TOPICS RELATED TO PESTICIDES, IS DIVIDED INTO THREE PARTS AND AN APPENDIX. THE FOUR CHAPTERS OF PART ONE DISCUSS THE INADEQUATE FOOD SUPPLIES IN SOME PARTS OF THE WORLD, POPULATION GROWTH, THE NEED TO CONTROL TROPICAL DISEASES, AND THE FINANCIAL PROBLEMS OF IMPROVING AGRICULTURE. PART TWO DISCUSSES WHAT IS BEING DONE TO INCREASE PRODUCTIVITY BY USING PESTICIDES IN BOTH TEMPERATE AND TROPICAL AGRICULTURE. THE NEED TO PROTECT ECONOMICALLY IMPORTANT CROPS AGAINST INSECT PESTS, DISEASES, AND WEEDS IS EXAMINED, ALONG WITH THE PROTECTION OF LIVESTOCK AND STORED PRODUCTS. IN PART THREE THE HAZARDS OF PESTICIDES TO PEOPLE AND THE ENVIRONMENT ARE DISCUSSED AS WELL AS THE PRECAUTIONS THAT ARE BEING TAKEN TO REDUCE DANGERS. NON-CHEMICAL METHODS OF CONTROLLING PESTS ARE ALSO DISCUSSED. THE APPENDIX PROVIDES A GUIDE TO PESTICIDE TERMINOLOGY.

AVAILABILITY: OXFORD UNIVERSITY PRESS, INC., 1600 POLLITT

DR., FAIRLAWN, NJ 07140 ($4.00)

IRIS ACCESSION NUMBER: EW005375

PUBLICATION DATE: 59

TITLE: PLANT PATHOLOGY.

PERSONAL AUTHOR: (EDITORS) HOLTON; AND OTHERS

DESCRIPTOR: AGRICULTURAL PRODUCTION; *BOTANY; *CHEMISTRY; DISEASE RATE; ENVIRONMENTAL INFLUENCES; ENVIRONMENTAL RESEARCH; *GENETICS; *MICROBIOLOGY; *PESTICIDES; *PLANT PATHOLOGY; *RESEARCH; SOIL SCIENCE

DESCRIPTIVE NOTE: 588P.

ABSTRACT: THIS BOOK IS THE PUBLISHED RECORD OF SYMPOSIA AND MAJOR ADDRESSES STAGED THROUGH THE AMERICAN INSTITUTE OF BIOLOGICAL SCIENCES AND THE AMERICAN PHYTO-PATHOLOGICAL SOCIETY. IT IS DESIGNED TO ADDRESS THE SCIENCE OF PLANT PATHOLOGY AS IT RELATES TO ALL SEGMENTS OF BIOLOGY-PHYSIOLOGY, MYCOLOGY, GENETICS, BACTERIOLOGY, NEMATOLOGY, VIROLOGY, HORTICULTURE, AGRONOMY, AND BIOCHEMISTRY. THE TEXT IS DIVIDED INTO TEN PARTS TO DEAL WITH EACH OF THESE MAJOR AREAS. THIS VOLUME PRESENTS A DATED, BUT EXCELLENT BIBLIOGRAPHY AND HISTORICAL COVERAGE OF THE SUBJECT.

AVAILABILITY: THE UNIVERSITY OF WISCONSIN PRESS, 430 STERLING CT., MADISON, WI.

IRIS ACCESSION NUMBER: EW005376

PUBLICATION DATE: 72

TITLE: INSECTICIDE AND FUNGICIDE HANDBOOK FOR CROP PROTECTION.

PERSONAL AUTHOR: MARTIN, HUBERT (EDITOR); WORTHING, CHARLES R. (EDITOR)

DESCRIPTOR: *AGRICULTURAL PRODUCTION; CHEMISTRY; *ENVIRONMENTAL INFLUENCES; FORESTS; GRAINS; ORNAMENTAL HORTICULTURE; *PESTICIDES; PESTS; *SAFETY; TURF

DESCRIPTIVE NOTE: 306P.

ABSTRACT: THIS HANDBOOK PRESENTS INFORMATION NECESSARY FOR THE CORRECT USE OF PESTICIDES IN CROP PROTECTION. EACH OF THE CHAPTERS DEALS WITH A PARTICULAR ASPECT OF PESTICIDE USE. THE BEGINNING CHAPTERS DISCUSS THE BIOLOGICAL AND CHEMICAL BACKGROUNDS OF PESTICIDES AND THEIR PROPER APPLICATION FOR SAFETY TO THE CONSUMER AND THE ENVIRONMENT. THE REMAINING CHAPTERS DEAL WITH PEST AND DISEASE CONTROL IN CEREALS; POTATOES AND BEETS; GRASS AND FODDER CROPS; FRUIT; GLASSHOUSE CROPS; VEGETABLE CROPS; ORNAMENTALS AND FOREST CROPS.

AVAILABILITY: J. P. LIPPINCOTT CO., E. WASHINGTON SQUARE, PHILADELPHIA, PA 19105 ($15.00)

IRIS ACCESSION NUMBER: EW005377
PUBLICATION DATE: 77

TITLE: CHEMICAL CONTROL OF INSECT BEHAVIOR.

PERSONAL AUTHOR: SHOREY, H. H.; MCKELVEY, JR., JOHN J.

DESCRIPTOR: *AGRICULTURAL PEST CONTROL; *BEHAVIOR; CHEMISTRY; *INSECTS; INSECTICIDES; *INSTRUCTIONAL MATERIALS; *PEST CONTROL; *PESTICIDES; *PHEROMONES; *POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: 414P.

ABSTRACT: THIS BOOK DEALS PRIMARILY WITH PHEROMONES AND OTHER CHEMICALS THAT INSECTS PERCEIVE BY SMELL. SECONDARILY, IT CONSIDERS TASTE SUBSTANCES WHICH ARE PERCEIVED BY INSECTS WHEN IN CONTACT WITH THE SOURCE. THE BOOK OPENS WITH AN ASSESSMENT OF THE PHYSIOLOGICAL CHARACTERISTICS OF INSECTS THAT ENABLE THEM TO PERCEIVE SUCH CHEMICALS. IT THEN CONSIDERS IN DETAIL HOW CHEMICALS NORMALLY FUNCTION TO MEDIATE INSECT BEHAVIOR. FINALLY, IT EVALUATES HOW BEHAVIOR-MODIFYING CHEMICALS CAN BE USED IN PEST MANAGEMENT.

AVAILABILITY: JOHN WILEY & SONS, ONE WILEY DR., SOMERSET, N.J. 08873 ($19.50)

IRIS ACCESSION NUMBER: EW005378

PUBLICATION DATE: 75
TITLE: INSECT ECOLOGY.

PERSONAL AUTHOR: PRICE, PETER W.

DESCRIPTOR: *BIOLOGY; *COLLEGE SCIENCE; *ECOLOGY; *ENTOMOLOGY; ECOSYSTEMS; *INSECTS; *INSTRUCTIONAL MATERIALS

DESCRIPTIVE NOTE: 514P.

ABSTRACT: THIS IS THE FIRST COMPREHENSIVE TREATMENT OF INSECT ECOLOGY TO BE PUBLISHED IN 20 YEARS. THE BOOK IS WRITTEN AS A TEXT FOR A COURSE IN ENTOMOLOGY FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS, AND INCOPORATES BOTH GENERAL ECOLOGICAL CONCEPTS AND ENTOMOLOGICAL MATERIAL. FROM THE STUDY OF TROPHIC RELATIONSHIPS, THE BOOK MOVES TO THE STUDY OF POPULATIONS, COEXISTENCE AND COMPETITION, AND FINALLY COMMUNITIES AND DISTRIBUTION. IN SEVERAL CHAPTERS THE AUTHOR USES AN EVOLUTIONARY APPROACH TO ECOLOGY. FOR EXAMPLE, THERE IS A CHAPTER ON THE CO-EVOLUTION OF PLANTS AND HERBIVORES. IN ADDITION, THERE ARE CHAPTERS ON POLLINATION ECOLOGY AND STRATEGIES IN REPRODUCTION.

AVAILABILITY: JOHN WILEY AND SONS, ONE WILEY DR., SOMERSET, N.J. 08873 ($17.75)

IRIS ACCESSION NUMBER: EW005379
PUBLICATION DATE: AUG 77

TITLE: IDENTIFICATION AND SPECIFICATION OF INPUTS FOR BENEFIT-COST MODELING OF PESTICIDE USE.

PERSONAL AUTHOR: EPP, DONALD; AND OTHERS

DESCRIPTOR: AGRICULTURAL PRODUCTION; BIBLIOGRAPHIES; *COST EFFECTIVENESS; ECONOMICS; ENVIRONMENTAL CRITERIA; *ENVIRONMENTAL INFLUENCES; *NATURAL RESOURCES; *PESTICIDES; PUBLIC HEALTH

DESCRIPTIVE NOTE: 144P.

ABSTRACT: THIS REPORT CONTAINS INFORMATION TO HELP DEFINE, DELINEATE, AND IMPROVE DATA INPUTS INTO BENEFIT-COST ANALYSES OF PESTICIDE USE. SIX MAJOR AREAS ARE DISCUSSED REGARDING THE EFFECTS OF A PESTICIDE-USE DECISION. A GENERAL OVERVIEW OF THE VARIABLES IS PRESENTED IN THE FIRST CHAPTER. THE REMAINING CHAPTERS CONSIDER IN DEPTH THE BENEFIT-COST CONSIDERATIONS FOR: ECONOMIC PRODUCTION; HUMAN HEALTH; ENVIRONMENTAL IMPACTS; AESTHETIC IMPACTS AND DISTRIBUTION EFFECTS. A BIBLIOGRAPHY IS PRESENTED WITH EACH MAJOR SECTION.

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161, PRICE: $5.25

IRIS ACCESSION NUMBER: EW005380

PUBLICATION DATE: DEC 76

TITLE: HERBICIDES FOR GRASS AND FORB CONTROL IN DOUGLAS-FIR PLANTATIONS.

PERSONAL AUTHOR: GRATKOWSKI, H.

DESCRIPTOR: CHEMICAL DETERMINATION; ENVIRONMENTAL INFLUENCES; *FORESTRY; *HERBICIDES; LAND USE; LUMBER INDUSTRY; PESTICIDES; PUBLIC HEALTH; *RESEARCH; *WEEDS; FORB CONTROL; GRASS CONTROL; SPRAYING (AERIAL)

DESCRIPTIVE NOTE: 7P.

ABSTRACT: REPORTED IS THE EFFECTIVENESS OF A VARIETY OF HERBICIDES FOR CONTROL OF GRASSES AND FORBS IN DOUGLAS-FIR PLANTATIONS. RESULTS ARE PROVIDED FOR TEN COMMON HERBICIDES AS TO CONTROL PROPERTIES AND RELATEDAMAGE TO CONIFERS AT TIME OF APPLICATION AND THE FOLLOWING SEASONS.

AVAILABILITY: PACIFIC NORTH WEST FOREST AND RANGE EXPERIMENT STATION, PORTLAND, OR

IRIS ACCESSION NUMBER: EW005381

PUBLICATION DATE: JUL 77

TITLE: INTEGRATED PEST MANAGEMENT - A LOOK TO THE FUTURE.

PERSONAL AUTHOR: GOOD, J.M.

DESCRIPTOR: *BIOLOGICAL CONTROL; *INSTRUCTIONAL MATERIALS; *PESTICIDES; *PEST CONTROL; *POST SECONDARY EDUCATION; *INTEGRATED PEST MANAGEMENT

DESCRIPTIVE NOTE: 18P.

ABSTRACT: THIS IS A REPORT OF THE PAST, PRESENT, AND FUTURE, OF THE INTEGRATED PEST MANAGEMENT (IPM) PROGRAM OF THE UNITED STATES DEPARTMENT OF AGRICULTURE, COOPERATIVE EXTENSION SERVICE. THE IPM PROGRAM IS INTENDED TO DEVELOP AND IMPLEMENT EFFECTIVE PEST CONTROL USING BIOLOGICAL, CULTURAL, CHEMICAL, AND VARIETAL METHODS; TO DEVELOP METHODS FOR MONITORING PEST POPULATIONS IN FIELDS; AND TO PROVIDE PRODUCERS AND THOSE WHO ADVISE FARMERS WITH INFORMATION AND TRAINING IN THE PRINCIPLES ON IPM.

AVAILABILITY: COOPERATIVE EXTENSION WORK, U.S. DEPT. OF AGRICULTURE

IRIS ACCESSION NUMBER: EW005382

PUBLICATION DATE: 76

TITLE: DISTRIBUTION OF 2,4-D AND PICLORAM APPLIED BY A MIST BLOWER.

PERSONAL AUTHOR: NORRIS, LOGAN A.; AND OTHERS

DESCRIPTOR: ENVIRONMENTAL INFLUENCES; *ENVIRONMENTAL RESEARCH; *HERBICIDES; *MEASUREMENT TECHNIQUES; PESTICIDES; *RESEARCH; UTILITIES; *WEEDS; *PICLORAM; *SPRAY (MIST BLOWER); *2,4-D

DESCRIPTIVE NOTE: 9P.

ABSTRACT: REPORTED IS RESEARCH TO DETERMINE THE DISTRIBUTION OF TWO HERBICIDES IN A TEST GRID AND AN EVALUATION OF THREE METHODS FOR ESTIMATING THE TOTAL AMOUNT OF HERBICIDE DEPOSITED IN THE SAMPLING AREA AFTER A MIST BLOWER APPLICATION. THE DISTRIBUTIONS WERE EVALUATED BY THE CONTINUOUS CONCENTRATION SURFACE (CCS) METHOD, THE EXPONENTIAL MODEL METHOD, AND THE RECTANGULAR SUMMATION METHOD.

AVAILABILITY: FOREST SERVICE, U.S. DEPT. OF AGRICULTURE ($)

IRIS ACCESSION NUMBER: EW005383

PUBLICATION DATE: FEB 77

TITLE: LOCAL COOPERATIVES IN INTEGRATED PEST MANAGEMENT.

PERSONAL AUTHOR: VOGELSANG, DONALD L.

DESCRIPTOR: *AGRICULTURAL PRODUCTION; BIOLOGICAL INFLUENCES; *BUSINESS ADMINISTRATION; ENTOMOLOGY; *ENVIRONMENTAL RESEARCH; *GUIDES; *INSTRUCTIONAL MATERIALS;

*MANAGEMENT SYSTEMS; *PEST CONTROL; PESTICIDES; *POST SECONDARY EDUCATION; PUBLIC HEALTH; *INTEGRATED PEST MANAGEMENT

DESCRIPTIVE NOTE: 44P. FCS RESEARCH REPORT 37. PRICE: $1.00 PER DOCUMENT PLUS 3^ PER PAGE.

ABSTRACT: PROVIDED IS INFORMATION FOR INDIVIDUALS WHO MAY WISH TO ORGANIZE A PROGRAM IN INTEGRATED PEST MANAGEMENT (IPM). TWO GROWER-OWNED ORGANIZATION'S IPM PROGRAMS ARE REVIEWED AND ANALYZED IN THIS REPORT. SUGGESTIONS ARE PROVIDED FOR POSSIBLE SERVICES, OFFICERS AND THEIR DUTIES, CALENDARS OF PROGRAMS, FINANCES AND SUPPORT. SAMPLE REPORT FORMS AND CONTRACTS ARE INCLUDED IN THE APPENDICES. (CS)

AVAILABILITY: EPA INFORMATION DISSEMINATION PROJECT, 1200 CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW005384

PUBLICATION DATE: MAR 77

TITLE: ESTABLISHING AND OPERATING GROWER-OWNED ORGANIZATIONS FOR INTEGRATED PEST MANAGEMENT.

PERSONAL AUTHOR: GOOD, J. M.; AND OTHERS

DESCRIPTOR: *AGRICULTURAL PRODUCTION; BIOLOGICAL INFLUENCES; *BUSINESS ADMINISTRATION; ENTOMOLOGY; ENVIRONMENTAL RESEARCH; *MANAGEMENT SYSTEMS; *ORGANIZATIONS; *PEST CONTROL; *PESTICIDES; *PROGRAM DEVELOPMENT; PUBLIC HEALTH; *INTEGRATED PEST MANAGEMENT

DESCRIPTIVE NOTE: 25P.

ABSTRACT: THIS REPORT PROVIDES INFORMATION FOR THOSE INDIVIDUALS WHO MAY WISH TO ORGANIZE A PROGRAM IN INTEGRATED PEST MANAGEMENT (IPM). DIFFERENT ASSOCIATIONS ARE DESCRIBED WITH EXAMPLES OF THEIR SERVICES AND PROGRAM RECORDS PROVIDED. THESE EXAMPLES INCLUDE: ORGANIZATION FORM AND MEMBERSHIP; EMPLOYEES; TYPES OF PEST CONTROL PROVIDED; CAPITALIZATION; FEE SCHEDULES; SUPPLIER CONTRACTS; AND INDEMNIFACTION AND LIABILITY INSURANCE. A SELECTED BIBLIOGRAPHY IS INCLUDED FOR REFERENCE.

AVAILABILITY: COOPERATIVE EXTENSION SERVICES, U.S. DEPT. OF AGRICULTURE

IRIS ACCESSION NUMBER: EW005385

PUBLICATION DATE: 77

TITLE: PESTICIDE MANAGEMENT AND INSECTICIDE RESISTANCE.

PERSONAL AUTHOR: WATSON, DAVID L; AND BROWN, AWA, ED.

DESCRIPTOR: AGRICULTURAL PRODUCTION; *ENTOMOLOGY; *ENVIRONMENT; *ENVIRONMENTAL RESEARCH; EQUIPMENT UTILIZATION; *INTERNATIONAL RELATIONS; MANAGEMENT; NATURAL RESOURCES; *PESTICIDES; PUBLIC HEALTH; SAFETY

DESCRIPTIVE NOTE: 638P.

ABSTRACT: THIS BOOK CONTAINS 49 PAPERS PRESENTED DURING THE SYMPOSIA AT THE 5TH INTERNATIONAL CONGRESS OF ENTOMOLOGY IN 1976. TOPICS DISCUSSED IN THE TEXT INCLUDE: (1) PESTICIDE RESIDUES AND SAFETY; (2) APPLICATION TECHNIQUES, INSECTICIDE RESISTANCE; (3) FLUOROHYDROCARBON PROPELLENTS; (4) THE MANAGEMENT OF PESTS IN URBAN ENVIRONMENTS, AND (5) INTERNATIONAL PLANT PROTECTION. TABLES, GRAPHS, AND REFERENCES ARE INCLUDED WITH EACH PAPER.

AVAILABILITY: ACADEMIC PRESS, 111 FIFTH AVE., NEW YORK, NY 10003 ($30.00)

IRIS ACCESSION NUMBER: EW005386

PUBLICATION DATE: APR 74

TITLE: MECHANISM OF PESTICIDE ACTION

PERSONAL AUTHOR: KOHN, G.K.

DESCRIPTOR: BIOLOGY; ENVIRONMENTAL INFLUENCES; *ENVIRONMENTAL RESEARCH; HERBICIDES; INSECTICIDES; *ORGANIC CHEMISTRY; *PESTICIDES; PESTS; GROWTH REGULANTS; INSECT STERILANTS

ABSTRACT: THIS VOLUME CONTAINS FOURTEEN PAPERS PRESENTED AT A SYMPOSIUM SPONSORED BY THE PESTICIDE CHEMISTRY DIVISION OF THE AMERICAN CHEMICAL SOCIETY. THE PAPERS DISCUSS CURRENT RESEARCH ON THE MECHANISM AND METABOLISM OF BROAD GROUPS OF PESTICIDES, ACTIVITY RELATIONSHIPS OF SPECIFIC PESTICIDES, AND MODEL SYSTEMS. TOPICS INCLUDE: METABOLISM IN INSECTS; PYRETHROIDS, CARBANILATE HERBICIDES, AND INSECT STERILANTS; INSECT GROWTH REGULANTS, AND CHLORELLA AS A MODEL FOR HERBICIDE STUDY.

AVAILABILITY: AMERICAN CHEMICAL SOCIETY, 1155 16TH ST., NW, WASHINGTON, D. C. 20036 ($12.75)

IRIS ACCESSION NUMBER: EW005387

PUBLICATION DATE: 75

TITLE: BOUND AND CONJUGATED PESTICIDE RESIDUES

PERSONAL AUTHOR: KAUFMAN, DONALD D.; AND OTHERS

DESCRIPTOR: *BIODOGRADATION; *BIOLOGY; CHEMICAL REACTIONS; *CHEMICAL PROPERTIES; *CONFERENCES; *ENVIRONMENT; HERBICIDES; INSECTICIDES; *LABORATORY TECHNIQUES; *PESTICIDES; PHYSIOLOGY; *CONJUGATED PESTICIDE RESIDUE

DESCRIPTIVE NOTE: 396P.

ABSTRACT: THIS SYMPOSIUM CONCERNS BOUND AND CONJUGATED PESTICIDE RESIDUES IN ANIMALS, PLANTS, AND SOILS. IN THIS VOLUME 30 PAPERS ARE PRESENTED BY SCIENTISTS KNOWLEDGEABLE IN ISOLATION, CHARACTERIZATION, AND SYNTHESIS OF SUCH RESIDUES. CURRENT TECHNOLOGY AND PROTOCOLS FOR INVESTIGATION

ARE PRESENTED. SPECIFIC CLASSES OF RESIDUES ARE DISCUSSED. SPECIFIC TOPICS INCLUDE: BIOLOGICAL ACTIVITY OF PESTICIDE CONJUGATES; GLYCOSIDES; GLUCUSONIDE, SULFATE ESTER, GLUTATHIONE, AND MISCELLANEOUS CONJUGATES; PROPANIL, 3, 4-DICHLOROANALINE-14 C, PROPANIL-PHENYL-14 C, NITROFEN, DICHLOBENIL, TRIFLOUROMETHANESULFONANILIDE, PARAQUAT, PIRIMICARB, FLUCHLORALIN, AND DINITROANALINE RESIDUES; ORGANIC MATTER REACTIONS; CLAY-PESTICIDE INTERACTIONS; HUMIC MATERIALS; PLANT AVAILABILITY; AND CHLOROANALINEHUMUS COMPLEXES.

AVAILABILITY: AMERICAN CHEMICAL SOCIETY, WASHINGTON, D. C. 20036 ($24.00)

IRIS ACCESSION NUMBER: EW005388

PUBLICATION DATE: 77

TITLE: ANALYTICAL METHODS FOR PESTICIDES AND PLANT GROWTH REGULATORS VOL. IX.

PERSONAL AUTHOR: ZWEIG, GUNTER; SHERMA, JOSEPH

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *CHEMICAL ANALYSIS; EQUIPMENT; *GROWTH REGULATORS; *LABORATORY TECHNIQUES; MEASUREMENT; *PESTICIDES; RESEARCH; *CHROMATOGRAPHY; *SPECTROSCOPY

DESCRIPTIVE NOTE: 299P.

ABSTRACT: THIS VOLUME ENCOMPASSES THE SIGNIFICANT ADVANCES MADE IN THE FIELD OF SPECTROSCOPIC ANALYSIS SINCE 1963. INCLUDED ARE CHAPTERS ON EACH OF THE FOLLOWING TOPICS: GAS LIQUID CHROMATOGRAPHY-MASS SPECTROMETRY, NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY AND RELATED TECHNIQUES, VISIBLE AND ULTRAVIOLET SPECTROPHOTOMETRY, SPECTROPHOTOFLUOROMETRY, AND INFRARED SPECTROMETRY. CHAPTER SIX PRESENTS A LIBRARY OF INFRARED SPECTRA OF OVER 400 IMPORTANT PESTICIDES. EACH CHAPTER GIVES INTRODUCTORY AND THEORETICAL INFORMATION AS WELL AS MATERIAL RELATED TO APPLICATIONS, TECHNIQUES, AND INSTRUMENTATION. IN ADDITION, EACH CHAPTER CONTAINS AN EXTENSIVE REFERENCE LIST.

AVAILABILITY: ACADEMIC PRESS, III FIFTH AVE., NEW YORK, NY 10003 ($40.00)

IRIS ACCESSION NUMBER: EW005389

PUBLICATION DATE: 77

TITLE: CONTROLLED RELEASE PESTICIDES.

PERSONAL AUTHOR: SCHER, HERBERT B., ED.

DESCRIPTOR: *CHEMICAL PROPERTIES; CHEMICAL REACTIONS; *ENCAPSULATION; ENVIRONMENTAL EFFECT; *GROWTH REGULATOR; *INSECTICIDES; *PESTICIDES; *PHEROMONES; TOXICOLOGY; *CONTROLLED RELEASE PESTICIDES

DESCRIPTIVE NOTE: 205P.

ABSTRACT: THIS VOLUME IS A COMPILATION OF INFORMATION DEALING WITH THE STRUCTURAL AND CHEMICAL FACTORS GOVERNING THE CONTROLLED RELEASE OF PESTICIDES FROM POLYMER SYSTEMS. THE FIRST FIVE PAPERS DEAL WITH CONTROLLED RELEASE CONCEPTS, CONTROLLED RELEASE THEORY, AND THE ENVIRONMENTAL AND TOXICOLOGICAL ASPECTS OF CONTROLLED RELEASE PESTICIDES. THE NEXT SEVEN PAPERS DESCRIBE POLYMER SYSTEMS THAT CONTROL THE RELEASE OF PESTICIDES, I.E., ELASTOMERS, BIODEGRADABLE MATRICES, POLYMERS CONTAINING PENDANT PESTICIDES, AND MICROCAPSULES. THE FINAL FOUR PAPERS INCLUDE RESEARCH ON MICROENCAPSULATED INSECTICIDES FOR FIELD USE, LAMINATED INSECTICIDE TAPES FOR HOME USE, A VARIETY OF SYSTEMS FOR CONTROLLING THE RELEASE OF GYSPSY MOTH PHEROMONE, AND A MICROCAPSULE SYSTEM FOR CONTROLLING THE RELEASE OF AN INSECT GROWTH REGULATOR.

AVAILABILITY: AMERICAN CHEMICAL SOCIETY, 1155 16TH ST., NW WASHINGTON, DC 20036 ($17.50)

IRIS ACCESSION NUMBER: EW005390

PUBLICATION DATE: 76

TITLE: THE FUTURE FOR INSECTICIDES NEEDS AND PROSPECTS.

PERSONAL AUTHOR: METCALF, ROBERT L. , MCKELVEY, JOHN J., JR.

DESCRIPTOR: *AGRICULTURE; *CHEMISTRY; *ENVIRONMENTAL INFLUENCES; *INSECTICIDES; *PEST CONTROL; *PESTICIDES; *POLLUTION; PUBLIC HEALTH; TOXICITY

DESCRIPTIVE NOTE: 524P.

ABSTRACT: BASED ON REPORTS GIVEN AT A CONFERENCE SPONSORED BY THE ROCKEFELLER FOUNDATION, THIS BOOK PRESENTS AN UPDATED ASSESSMENT OF THE PAST, PRESENT, AND FUTURE OF THE CHEMICAL APPROACH TO INSECT CONTROL. INCLUDED ARE 20 PAPERS ORGANIZED UNDER SIX HEADINGS. THE FIRST HEADING, INTERNATIONAL ASPECTS IN FOOD AND HEALTH, CONTAINS PAPERS ON INSECTICIDES IN FOOD PRODUCTION AND IN HUMAN HEALTH. THE SECOND PART DISCUSSES RESISTANCE TO PESTICIDES, ENVIRONMENTAL POLLUTION BY INSECTICIDES, AND INSECTICIDE TOXICITY. THE THIRD PART PRESENTS PROSPECTS FOR IMPROVEMENT OF SUCH PRESENT DAY INSECTICIDES AS PYRETHOIDS, ORGANOCHLORINE INSECTICIDES, ORGNOPHOSPHORUS INSECTICIDES, AND CARBAMAES. THE FOURTH PART IS ON NOVEL CHEMICALS AND TARGETS SUCH AS HORMONE MIMICS AND PHEROMONES. THE FIFTH PART, PERSPECTIVES, DISCUSSES HISTORICAL ASPECTS OF INSECTICIDE DEVELOPMENT AND INTEGRATED PEST MANAGEMENT. FINALLY, THE SIXTH PART GIVES A SUMMARY AND RECOMMENDATIONS.

AVAILABILITY: JOHN WILEY 8 SONS PUB., ONE WILEY DR., SOMERSET, NJ 08873 ($23.75)

IRIS ACCESSION NUMBER: EW005391

PUBLICATION DATE: FEB 76

TITLE: CHEMICAL SITE PREPARATION IN THE INLAND EMPIRE.

PERSONAL AUTHOR: STEWART; R.E.
DESCRIPTOR: *CHEMICAL TREATMENT; *ENVIRONMENT; *FOREST PEST CONTROL; FOREST; GRASS; *HERBICIDES; *PESTICIDES

DESCRIPTIVE NOTE: 13P.

ABSTRACT: CHEMICAL SITE PREPARATION IS SUGGESTED FOR ANY SITUATION WHERE COMPETING VEGETATION IS A MAJOR OBSTACLE TO REFORESTATION. IT OFTEN IS LESS COSTLY AND HAS LESS ENVIRONMENTAL IMPACT THAN MECHANICAL CLEARING OR PRESCRIBED BURNING. MOREOVER, HERBICIDES MAY BE PARTICULARLY USEFUL FOR ESTABLISHING CONIFERS IN GRASS COMMUNITIES OR ON SITES SUBJECT TO TEMPERATURE EXTREMES. WHERE NECESSARY TO PROVIDE ACCESS OR TO REMOVE PROTECTIVE COVER FOR SMALL ANIMALS, HERBICIDES MAY BE COMBINED WITH MECHANICAL CRUSHING OR CLEARING OR WITH BURNING TO REMOVE THE DEAD VEGETATION. IN THIS CASE, SPRAYING MAY REDUCE THE COST OF SUBSEQUENT TREATMENT AND PRODUCE BETTER LONG-TERM CONTROL OF COMPETING VEGETATION.

AVAILABILITY: PACIFIC NORTHWEST FOREST AND RANGE EXPERIMENT STATION, FOREST SERVICE, U.S. DEPT. OF AGRICULTURE, CORVALLIS, OR 97330

IRIS ACCESSION NUMBER: EW005392

PUBLICATION DATE: 75

TITLE: INTRODUCTION TO INSECT PEST MANAGEMENT.

PERSONAL AUTHOR: METCALF, ROBERT L.; LUCKMANN, WILLIAM

DESCRIPTOR: *AGRICULTURAL PEST CONTROL; BIOLOGICAL CONTROL; ECOLOGY; ECONOMICS; *ENTOMOLOGY; ENVIRONMENTAL CONTROL; *INSECTICIDES; *INSECTS; *INSTRUCTIONAL MATERIALS; *INTERGRATED PEST CONTROL; *PEST CONTROL; *PESTICIDES

DESCRIPTIVE NOTE: 587P.

ABSTRACT: THIS BOOK TAKES AN INTERGRATED APPROACH TO INSECT PEST MANAGEMENT AND DISCUSSES BIOLOGICAL, CHEMICAL, AND NATURAL CONTROL FACTORS. IT IS ORIENTED TOWARDS INSECT PROBLEMS IN AGRICULTURE AND SHOULD BE USEFUL FOR UNDERGRADUATE OR GRADUATE COURSES. THE BOOK IS DIVIDED INTO FIVE PARTS AND CONTAINS 16 CHAPTERS. THE FIRST PART, PRINCIPLES, CONTAINS CHAPTERS ON THE PEST MANAGEMENT CONCEPT, ECOLOGICAL ASPECTS OF PEST MANAGEMENT, AND ECONOMICS. THE SECOND PART, TACTICS, COVERS PLANT RESISTANCE, PARASITOIDS AND PREDATORS, USE OF DISEASES, INSECTICIDES, AND ATTRACTANTS, REPELLANTS, AND GENETIC CONTROL. THE THIRD PART, STRATEGY, CONTAINS CHAPTERS ON SAMPLING AND MEASURING, AND ANALYSIS AND MODELING. THE FOURTH PART GIVES EXAMPLES OF INSECT PEST MANAGEMENT IN COTTON, FORAGE CROPS, TREE FRUIT, FORESTS, MAN AND DOMESTIC ANIMALS. FINALLY, THE EPILOGUE DISCUSSES PEST MANAGEMENT AND THE FUTURE. EACH CHAPTER CONTAINS MANY CHARTS, TABLES, AND ILLUSTRATIONS, AND GIVES A LIST OF REFERENCES AND SUGGEST READINGS.

AVAILABILITY: JOHN WILEY 8 SONS ONE WILEY DR., SOMERSET, NJ 08873 ($20.95)

IRIS ACCESSION NUMBER: EW005393
PUBLICATION DATE: 76

TITLE: PEST MANAGEMENT WITH INSECT SEX ATTRACTANTS, ACS SYMPOSIUM SERIES 23.

PERSONAL AUTHOR: BEROZA, MORTON (EDITOR)

DESCRIPTOR: ANIMAL PHYSIOLOGY; *BIOLOGICAL CONTROL; CHEMICAL REACTIONS; *ENTOMOLOGY; *INSTRUCTIONAL MATERIALS; *PEST CONTROL; *PHEROMONES; *POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: 192P.

ABSTRACT: THE USE OF NONTOXIC CHEMICALS AS ATTRACTANTS, AGGREGATES, INHIBITORS, DISRUPTANTS, AND KAIROMONES CAN SOLVE MANY OF TODAY'S AGRICULTURE PROBLEMS, WITHOUT HARMFUL EFFECTS TO MAN AND ENVIRONMENT. THE NINE PAPERS PRESENTED DISCUSS MULTICOMPONENT PHEROMONES, AIRPERMEATION WITH GOSSYPLURE, CONTROL OF LEPIDOPTEROUS PESTS, PHEROMONES IN AGRICULTURE FROM SYNTHESIS TO COMMERCIAL USE, CONTROL OF THE GYPSY MOTH, AND EPA REGISTRATION REQUIREMENTS. INCLUDED ALSO IS A COMPREHENSIVE LISTING OF INSECT BEHAVIOR-CONTROLLING CHEMICALS, MANY OF WHICH MAY BE USEFUL IN PEST MANAGEMENT.

AVAILABILITY: AMERICAN CHEMICAL SOCIETY, 1155 SIXTEENTH ST., NW WASHINGTON, DC 20036 ($17.75)

IRIS ACCESSION NUMBER: EW005394

PUBLICATION DATE: 77

TITLE: SYNTHETIC PYRETHROIDS, ACS SYMPOSIUM SERIES 42.

PERSONAL AUTHOR: ELLIOTT, MICHAEL

DESCRIPTOR: *CHEMICAL ANALYSIS; CHEMICAL PROPERTIES; CHEMICAL REACTIONS; ENTOMOLOGY; *INSECTICIDES; *INSTRUCTIONAL MATERIALS; *PEST CONTROL; *PESTICIDES; POST SECONDARY EDUCATION; TOXICITY; *PYRETHROIDS

DESCRIPTIVE NOTE: 229P.

ABSTRACT: THE SYNTHETIC PYRETHROIDS ARE A NEW CLASS OF INSECTICIDE WHICH PROMISES TO SUPPLEMENT AND POSSIBLY REPLACE SOME OF THE EARLIER ORGANOCHLORINE, ORGANOPHOSPHATE, AND CARBAMATE COMPOUNDS ON WHICH INSECT CONTROL CURRENTLY DEPENDS . THE COMPOUNDS HAVE LONG BEEN RECOGNIZED AS EXCELLENT INSECTICIDES WITH LOW MAMMALIAN TOXICITY WHICH ACT RAPIDLY AGAINST A WIDE RANGE OF INSECTS AND WHICH ARE SO UNSTABLE IN AIR AND LIGHT THAT THEY LEAVE NO HARMFUL RESIDUES IN THE ENVIRONMENT. THE 20 PAPERS IN THIS BOOK DEAL WITH ALL ASPECTS OF THE NEW COMPOUNDS, INCLUDING THEIR HISTORY, INSECTICIDAL ACTIVITY, STRUCTURE-ACTIVITY RELATIONSHIPS, SYNTHESIS, MODE OF ACTION, METABOLISM IN MAMMALS AND PLANTS, STABILITY IN LIGHT AND SOIL, AND ANALYSIS.

AVAILABILITY: AMERICAN CHEMICAL SOCIETY, 1155 SIXTEENTH ST., NW WASHINGTON, DC. 20036 ($15.75)

IRIS ACCESSION NUMBER: EW005395

PUBLICATION DATE: 75

TITLE: ARSENICAL PESTICIDES, ACS SYMPOSIUM SERIES 7.

PERSONAL AUTHOR: WOOLSON, E. A.

DESCRIPTOR: ARSENIC; CHEMICAL ANALYSIS; *CHEMICAL PROPERTIES; ECOLOGY; *ENVIRONMENT; *INSTRUCTIONAL MATERIALS; MICROBIOLOGY; *PESTICIDES; *PEST CONTROL; *POST SECONDARY EDUCATION; SOIL; TOXICITY

DESCRIPTIVE NOTE: 176P.

ABSTRACT: ALTHOUGH ARSENIC HAS HAD SUCH A BAD NAME AS TO BE ALMOST IDENTICAL WITH THE WORD "POISON", IT IS AN UBIQUITOUS ELEMENT PRESENT IN AIR, WATER, SOIL, AND ALL LIVING TISSUES. ARSENICAL COMPOUNDS HAVE BEEN USED AS DRUGS IN TREATING HUMAN DISEASES AND ARE NOW COMMONLY USED AS PESTICIDES AND FEED ADDITIVES. THESE 10 PAPERS DISCUSS THE ANALYSIS, SOIL BEHAVIOR, BIOTRANSFORMATION, ACCUMULATION, CYCLING, AND MODELING OF ARSENATE AND ARSENICAL PESTICIDES IN NATURE. TOPICS INCLUDE: A REVIEW OF ARSENICAL PESTICIDES, DETERMINATION OF TRACES OF ARSENIC, BEHAVIOR AND PHYTOTOXICITY OF ORGANIC AND INORGANIC ARSENICALS IN SOILS, ARSENICALS IN ANIMALS, MICROBIOLOGICAL METHYLATION, BIOACCUMULATION, THE ARSENIC CYCLE, AND MOBILITY OF ARSENIC IN THE ENVIRONMENT.

AVAILABILITY: AMERICAN CHEMICAL SOCIETY, 1155 SIXTEENTH ST., NW WASHINGTON , DC 20036 ($12.50)

IRIS ACCESSION NUMBER: EW005396

PUBLICATION DATE: 77

TITLE: PESTICIDE CHEMISTRY IN THE 20TH CENTURY, ACS SYMPOSIUM SERIES 37.

PERSONAL AUTHOR: PLIMMER, JACK R.

DESCRIPTOR: ENVIRONMENT; *FUNGICIDES; *HERBICIDES; *INSECTICIDES; *INSTRUCTIONAL MATERIALS; *PEST CONTROL; *PESTICIDES; PHEROMONES; POST SECONDARY EDUCATION; SCIENCE HISTORY

DESCRIPTIVE NOTE: 310P.

ABSTRACT: THIS BOOK PRESENTS A SURVEY OF PESTICIDE CHEMISTRY OVER THE PAST 75 YEARS AND SPECULATES ON FUTURE ROLES AND NEW DIRECTIONS. THE FIRST PART OF THE BOOK DISCUSSES THE HISTORY, PRESENT STATUS, AND THE FUTURE OF CHLORINATED INSECTICIDES AND THE PROGRESSION OF RESISTANCE MECHANISMS DEVELOPED AGAINST INSECTICIDES. THE NEXT SECTION COVERS THE DEVELOPMENT OF THE AMERICAN HERBICIDE INDUSTRY, THE MODE OF ACTION OF HERBICIDES, AND THE ENVIRONMENTAL CHEMSITRY OF HERBICIDES. THE THIRD PART GIVES A GENERAL DISCUSSION OF FUNGICIDES, PAPERS ON METALLO-ORGANIC FUNGICIDES AND A DISCUSSION OF AGRICULTURAL ANTIBIOTICS. THE FOLLOWING SECTION, ON INSECT GROWTH AND BEHAVIOR REGULATORS, GIVES PAPERS ON HORMONALS CONTROL OF INSECT DEVELOPMENT, PHEROMONES, BENZOYLPHENYL UREAS, AND FOURTH GENERATION INSECTICIDES. THE FINAL SECTION CONTAINS PAPERS ON THE POST-HARVEST RESPONSE AND PLANT GROWTH REGULATORS, AND GROWTH REGULATORS IN FLOWERING AND FRUIT DEVELOPMENT.

AVAILABILITY: AMERICAN CHEMICAL SOCIETY, 1155 SIXTEENTH ST., NW WASHINGTON, DC 20036 ($20.00)

IRIS ACCESSION NUMBER: EW005397

TITLE: PESTICIDES IN FOCUS.

DESCRIPTOR: AGRICULTURAL PRODUCTION; AUDIOVISUAL AIDS; ENVIRONMENTAL CRITERIA; *ENVIRONMENTAL RESEARCH; *ECOLOGY; *FILMS; INSECTICIDES; *INSTRUCTIONAL MATERIALS; JUNIOR HIGH SCHOOLS; *PESTICIDES; *PUBLIC SAFETY; *SECONDARY EDUCATION; *WORLD PROBLEMS

DESCRIPTIVE NOTE: 16 MM FILM; 25 MINUTES

ABSTRACT: THIS 25 MINUTE COLOR FILM ATTEMPTS TO SHOW HOW PESTICIDES ARE SAFE AND NECESSARY IN TODAYS WORLD. THE FILM DEVELOPS A BACKGROUND SHOWING HOW MANS RECENT POPULATION EXPLOSION HAS CAUSED A DEMAND FOR GREATER AGRICULTURAL PRODUCTION AND THEREFORE AN INCREASED RELIANCE ON PESTICIDES. THE FILM QUESTIONS PAST UNRESTRAINED USES OF PESTICIDES AND EXPLORES OPTIONS SUCH AS "BIOLOGICAL CONTROLS". HERE THE FILM GIVES SEVERAL SUCCESSFUL EXAMPLES OF BIOLOGICAL PEST CONTROL SUCH AS THE COFFEE MEALY BUG PROBLEM IN KENYA AND ITS SOLUTION VIA THE INTRODUCTION OF A SPECIES OF LADYBUG. BIOLOGICAL CONTROLS HAVE BEEN DEVELOPED FOR ONLY 5 0/0 OF THE AGRICULTURAL INSECT PESTS, SO PESTICIDES ARE OUR ONLY PRESENT METHOD OF CONTROLLING THE OTHER 95 0/0 . THE CENTRAL THEME IS DEVELOPED THAT, "PESTICIDES, PROPERLY HANDLED, CAN BE USED WITHOUT HAZARD." THIS THEME IS DEVELOPED BY SHOWING THE YEARS OF LABORATORY AND FIELD RESEARCH THAT EACH PESTICIDE RECEIVES. HAVING PASSED THROUGH THE INITIAL FIVE-YEAR SCREENING PROCESS PESTICIDES ARE THEN SUBJECTED TO SEVERAL MORE YEARS OF FIELD AND LABORATORY TESTS TO ESTABLISH LEVELS OF SAFETY, SAFE APPLICATION PROCEDURES, AND GOVERNMENTAL RESIDUAL STANDARDS

AVAILABILITY: SHELL FILM LIBRARY, 1433 SADLIER CIRCLE WEST DR., INDIANAPOLIS, IN 46239 (NO RENTAL FEE)

INSTITUTION NAME: SHELL FILM LIBRARY.

IRIS ACCESSION NUMBER: EW005398

PUBLICATION DATE: 78

TITLE: CHEMISTRY AND ACTION OF HERBICIDE ANTIDOTES.

PERSONAL AUTHOR: PALLOS, FERENC M., CASIDA, JOHN E. (EDITORS)

DESCRIPTOR: *ANTIDOTES; *BIOLOGY; CHEMICAL PROPERTIES; *CROPS; *HERBICIDES; *INSTRUCTIONAL MATERIALS; *PLANT PHYSIOLOGY; POST SECONDARY EDUCATION.

DESCRIPTIVE NOTE: 171P.

ABSTRACT: THIS BOOK LOOKS AT SOME COMPOUNDS THAT PROTECT CROPS FROM THE EFFECTS OF HERBICIDES AND THE CHEMICAL AND BIOCHEMICAL BASIS FOR THIS ACTIVITY. THE BOOK CONTAINS SIX PARTS, THE FIRST PART BEING A GENERAL DISCUSSION OF HERBICIDE ANTIDOTES. THE SECOND PART IS ON STRUCTURE-ACTIVITY RELATIONSHIPS. IT DISCUSSES ANTIDOTES THAT PROTECT CORN FROM THIOCARBAMATE HERBICIDE INJURY AND DIAZOSULFONATES AS PROTECTANTS AGAINST STRAZINE TOXICITY TO SOYBEANS. THE THIRD PART IS ON COMPARATIVE ACTIVITY, SELECTIVITY, AND FIELD APPLICATIONS OF HERBICIDE ANTIDOTES. PART FOUR CONSIDERS THE PHYSIOLOGICAL ACTIONS OF THIOCARBAMATE HERBICIDES AND THEIR ANTIDOTES. PART FIVE IS DEVOTED TO ANTIDOTE METABOLISM AND EFFECTS ON HERBICIDE METABOLISM; THE SIXTH PART IS A SUMMARY.

AVAILABILITY: ACADEMIC PRESS 111 FIFTH AVE., NEW YORK, NY 10003 ($11.50)

IRIS ACCESSION NUMBER: EW005399

PUBLICATION DATE: 75

TITLE: POSTHARVEST BIOLOGY AND HANDLING OF FRUITS AND VEGETABLES.

PERSONAL AUTHOR: HAARD, NORMAN F., SALUNKHE, D. K.

DESCRIPTOR: *AGRICULTURAL PRODUCTION; BIOCHEMISTRY; *BIOLOGY; HIGHER EDUCATION; *INSTRUCTIONAL MATERIALS; *PLANT PHYSIOLOGY; *POST SECONDARY EDUCATION; QUALITY CONTROL; *FRUITS; *VEGETABLES

DESCRIPTIVE NOTE: 193P.

ABSTRACT: THE SUBJECT MATTER OF THIS VOLUME CONSIDERS BIOCHEMICAL CONTROL MECHANISMS IN THE POSTHARVEST CELL, PREHARVEST CONSIDERATIONS, MEASUREMENT OF QUALITY INDICES, AND COMMERICAL HANDLING OF HARVESTED FRUITS AND VEGETABLES. THE BOOK CONTAINS 14 CHAPTERS DIVIDED INTO FOUR SECTIONS: INTRODUCTION, BIOCHEMICAL CONTROL, QUALITY INDICES, AND HANDLING AND STORAGE. SOME OF THE TOPICS CONSIDERED ARE: SYNTHETIC AND DEGRADATIVE PROCESSES IN FRUIT RIPENING, ANATOMY OF TOUGHNESS IN PLANT TISSUES, POSTHARVEST DISEASES OF FRESH FRUITS AND VEGETABLES, AND ANTHOCYANIN PIGMENTS IN FOODS. THIS TEXT MAY BE USEFULL AS A SUPPLEMENT TO COURSES DEALING WITH POSTHARVEST PHYSIOLOGY.

AVAILABILITY: AVI PUBLISHING, WESTPORT, CT ($24.00)

IRIS ACCESSION NUMBER: EW005400

PUBLICATION DATE: 72

TITLE: GROUP 1: COCKROACHES. RECOGNIZING COMMON COCKROACHES.

DESCRIPTOR: CERTIFICATION; EDUCATIONAL PROGRAMS; *ENTOMOLOGY; *ENVIRONMENTAL TECHNICIAN; INDIVIDUALIZED INSTRUCTION; INSECTICIDES; *INSTRUCTIONAL MATERIALS; *JOB SKILLS; POST SECONDARY EDUCATION; *PROGRAMMED MATERIALS; PUBLIC HEALTH; *COCKROACHES; *PEST CONTROL

DESCRIPTIVE NOTE: 43P.

ABSTRACT: THIS TRAINING PROGRAM IS DESIGNED FOR THE PEST CONTROL TECHNICIAN TO HELP FURTHER JOB SKILLS AND EDUCATIONAL BACKGROUND. THE PROGRAM IS WRITTEN IN A SELF-STUDY FORMAT WITH EACH BOOK IN THE CATEGORY SERIES CONTAINING A PRETEST, A LEARNING PROGRAM, AND A POST TEST. THE MATERIAL COVERS ONLY THE BASICS - THOSE THINGS THE TECHNICIAN NEEDS TO KNOW. BOOK 1 OF THIS SERIES DEALS WITH RECOGNIZING COMMON COCKROACHES.

AVAILABILITY: INDUSTRIAL TEACHING SYSTEMS, CORP., 570 SEVENTH AVE., NEW YORK, NY 10018 (NO PRICE QUOTED)

INSTITUTION NAME: NATIONAL PEST CONTROL ASSOC.

IRIS ACCESSION NUMBER: EW005401

PUBLICATION DATE: 72

TITLE: HABITS OF COMMON COCKROACHES. BOOK 2. GROUP 1: COCKROACHES.

DESCRIPTOR: CERTIFICATION; EDUCATIONAL PROGRAMS; *ENTOMOLOGY; *ENVIRONMENTAL TECHNICIAN; INDIVIDUALIZED INSTRUCTION; INSECTICIDES; *INSTRUCTIONAL MATERIALS; *JOB SKILLS; POST SECONDARY EDUCATION; *PROGRAMMED MATERIALS; PUBLIC HEALTH; *COCKROACHES; *PEST CONTROL

DESCRIPTIVE NOTE: 33P.

ABSTRACT: THIS TRAINING PROGRAM IS DESIGNED FOR THE PEST CONTROL TECHNICIAN TO HELP FURTHER JOB SKILLS AND EDUCATIONAL BACKGROUND. THE PROGRAM IS WRITTEN IN A SELF-STUDY FORMAT WITH EACH BOOK IN THE CATEGORY SERIES CONTAINING A PRETEST, A LEARNING PROGRAM, AND A POST TEST. THE MATERIAL COVERS ONLY THE BASICS - THOSE THINGS THE TECHNICIAN NEEDS TO KNOW. BOOK 2 OF THIS SERIES DEALS WITH THE HABITS OF COMMON COCKROACHES.

AVAILABILITY: INDUSTRIAL TEACHING SYSTEMS CORP., 570 SEVENTH AVE., NEW YORK, NY 10018 (NO PRICE QUOTED)

INSTITUTION NAME: NATIONAL PEST CONTROL ASSOC.

IRIS ACCESSION NUMBER: EW005402

PUBLICATION DATE: 72

TITLE: INSPECTIONS. BOOK 3. GROUP 1: COCKROACHES.

DESCRIPTOR: CERTIFICATION; EDUCATIONAL PROGRAMS; *ENTOMOLOGY; *ENVIRONMENTAL TECHNICIAN; INDIVIDUALIZED INSTRUCTION; INSECTICIDES; *INSTRUCTIONAL MATERIALS; *JOB SKILLS; POST SECONDARY EDUCATION; *PROGRAMMED MATERIALS; PUBLIC HEALTH; *COCKROACHES; *PEST CONTROL

DESCRIPTIVE NOTE: 28P.

ABSTRACT: THIS TRAINING PROGRAM IS DESIGNED FOR THE PEST CONTROL TECHNICIAN TO HELP FURTHER JOB SKILLS AND EDUCATIONAL BACKGROUND. THE PROGRAM IS WRITTEN IN A SELF-STUDY FORMAT WITH EACH BOOK IN THE CATEGORY SERIES CONTAINING A PRETEST, A LEARNING PROGRAM, AND A POST TEST. THE MATERIAL COVERS ONLY THE BASICS - THOSE THINGS THE TECHNICIAN NEEDS TO KNOW. BOOK 3 OF THIS SERIES DEALS WITH INSPECTIONS.

AVAILABILITY: INDUSTRIAL TEACHING SYSTEMS, CORP., 570 SEVENTH AVE., NEW YORK, NY 10018 (NO PRICE QUOTED)

INSTITUTION NAME: NATIONAL PEST CONTROL ASSOC.

IRIS ACCESSION NUMBER: EW005403

PUBLICATION DATE: 73

TITLE: KILLING COCKROACHES WITH INSECTICIDE. BOOK 4. GROUP 1: COCKROACHES.

DESCRIPTOR: CERTIFICATION; EDUCATIONAL PROGRAMS; *ENTOMOLOGY; *ENVIRONMENTAL TECHNICIAN; INDIVIDUALIZED INSTRUCTION; *INSECTICIDES; *INSTRUCTIONAL MATERIALS; *JOB SKILLS; POST SECONDARY EDUCATION; *PROGRAMMED MATERIALS; PUBLIC HEALTH; *COCKROACHES; *PEST CONTROL

DESCRIPTIVE NOTE: 39P.

ABSTRACT: THIS TRAINING PROGRAM IS DESIGNED FOR THE PEST CONTROL TECHNICIAN TO HELP FURTHER JOB SKILLS AND EDUCATIONAL BACKGROUND. THE PROGRAM IS WRITTEN IN A SELF-STUDY FORMAT WITH EACH BOOK IN THE CATEGORY SERIES CONTAINING A PRETEST, A LEARNING PROGRAM, AND A POST TEST. THE MATERIAL COVERS ONLY THE BASICS - THOSE THINGS THE TECHNICIAN NEEDS TO KNOW. BOOK 4 OF THIS SERIES DEALS WITH KILLING COCKROACHES WITH INSECTICIDES.

AVAILABILITY: INDUSTRIAL TEACHING SYSTEMS, CORP., 570 SEVENTH AVE., NEW YORK, NY 10018 (NO PRICE QUOTED)

INSTITUTION NAME: NATIONAL PEST CONTROL ASSOC.

IRIS ACCESSION NUMBER: EW005404

PUBLICATION DATE: 73

TITLE: CONTROLLING COCKROACHES. BOOK 5. GROUP 1: COCKROACHES.

DESCRIPTOR: CERTIFICATION; EDUCATIONAL PROGRAMS; *ENTOMOLOGY; *ENVIRONMENTAL TECHNICIAN; INDIVIDUALIZED INSTRUCTION; INSECTICIDES; *INSTRUCTIONAL MATERIALS; *JOB SKILLS; POST SECONDARY EDUCATION; *PROGRAMMED MATERIALS; PUBLIC HEALTH; *COCKROACHES; *PEST CONTROL

DESCRIPTIVE NOTE: 30P.

ABSTRACT: THIS TRAINING PROGRAM IS DESIGNED FOR THE PEST CONTROL TECHNICIAN TO HELP FURTHER JOB SKILLS AND EDUCATIONAL BACKGROUND. THE PROGRAM IS WRITTEN IN A SELF-STUDY FORMAT WITH EACH BOOK IN THE CATEGORY SERIES CONTAINING A PRETEST, A LEARNING PROGRAM, AND A POST TEST. THE MATERIAL COVERS ONLY THE BASICS - THOSE THINGS THE TECHNICIAN NEEDS TO KNOW. BOOK 5 OF THIS SERIES DEALS WITH CONTROLLING COCKROACHES

AVAILABILITY: INDUSTRIAL TEACHING SYSTEMS, CORP., 570 SEVENTH AVE., NEW YORK, NY 10018 (NO PRICE QUOTED)

INSTITUTION NAME: NATIONAL PEST CONTROL ASSOC.

IRIS ACCESSION NUMBER: EW005405

PUBLICATION DATE: 73

TITLE: THE COMPRESSED AIR SPRAYER: BOOK 1. GROUP 2: EQUIPMENT.

DESCRIPTOR: CERTIFICATION; EDUCATIONAL PROGRAMS; *ENVIRONMENTAL TECHNICIAN; *EQUIPMENT; INDIVIDUALIZED INSTRUCTION; *INSTRUCTIONAL MATERIALS; *JOB SKILLS; MAINTENANCE; PESTICIDES; POST SECONDARY EDUCATION; *PROGRAMMED MATERIALS; SAFETY; *PEST CONTROL; *SPRAY EQUIPMENT

DESCRIPTIVE NOTE: 34P.

ABSTRACT: THIS TRAINING PROGRAM IS DESIGNED FOR THE PEST CONTROL TECHNICIAN TO HELP FURTHER JOB SKILLS AND EDUCATIONAL BACKGROUND. THE PROGRAM IS WRITTEN IN A SELF-STUDY FORMAT WITH EACH BOOK IN THE CATEGORY SERIES CONTAINING A PRETEST, A LEARNING PROGRAM, AND A POST TEST. THE MATERIAL COVERS ONLY THE BASICS. BOOK 1 OF THIS SERIES DEALS WITH THE COMPRESSED AIR SPRAYER.

AVAILABILITY: INDUSTRIAL TEACHING SYSTEMS, CORP., 570 SEVENTH AVE., NEW YORK, NY 10018 (NO PRICE QUOTED)

INSTITUTION NAME: NATIONAL PEST CONTROL ASSOC.

IRIS ACCESSION NUMBER: EW005406

PUBLICATION DATE: 73

TITLE: MAINTENANCE OF THE COMPRESSED AIR SPRAYER: BOOK 2. GROUP 2: EQUIPMENT.

DESCRIPTOR: CERTIFICATION; EDUCATIONAL PROGRAMS; *ENVIRONMENTAL TECHNICIAN; *EQUIPMENT; INDIVIDUALIZED INSTRUCTION; *INSTRUCTIONAL MATERIALS; *JOB SKILLS; MAINTENANCE; PESTICIDES; POST SECONDARY EDUCATION; *PROGRAMMED MATERIALS; SAFETY; *PEST CONTROL; *SPRAY EQUIPMENT

DESCRIPTIVE NOTE: 34P.

ABSTRACT: THIS TRAINING PROGRAM IS DESIGNED FOR THE PEST

CONTROL TECHNICIAN TO HELP FURTHER JOB SKILLS AND EDUCATIONAL BACKGROUND. THE PROGRAM IS WRITTEN IN A SELF-STUDY FORMAT WITH EACH BOOK IN THE CATEGORY SERIES CONTAINING A PRETEST, A LEARNING PROGRAM, AND A POST TEST. THE MATERIAL COVERS ONLY THE BASICS. BOOK 2 OF THIS SERIES DEALS WITH MAINTENANCE OF THE COMPRESSED AIR SPRAYER.

AVAILABILITY: INDUSTRIAL TEACHING SYSTEMS, CORP., 570 SEVENTH AVE., NEW YORK, NY 10018 (NO PRICE QUOTED)

INSTITUTION NAME: NATIONAL PEST CONTROL ASSOC.

IRIS ACCESSION NUMBER: EW005407

PUBLICATION DATE: 73

TITLE: DUSTERS: BOOK 3. GROUP 2: EQUIPMENT.

DESCRIPTOR: CERTIFICATION; EDUCATIONAL PROGRAMS; *ENVIRONMENTAL TECHNICIAN; *EQUIPMENT; INDIVIDUALIZED INSTRUCTION; *INSTRUCTIONAL MATERIALS; *JOB SKILLS; MAINTENANCE; PESTICIDES; POST SECONDARY EDUCATION; *PROGRAMMED MATERIALS; SAFETY; *DUSTING EQUIPMENT; *PEST CONTROL

DESCRIPTIVE NOTE: 30P.

ABSTRACT: THIS TRAINING PROGRAM IS DESIGNED FOR THE PEST CONTROL TECHNICIAN TO HELP FURTHER JOB SKILLS AND EDUCATIONAL BACKGROUND. THE PROGRAM IS WRITTEN IN A SELF-STUDY FORMAT WITH EACH BOOK IN THE CATEGORY SERIES CONTAINING A PRETEST, A LEARNING PROGRAM AND A POST TEST. THEMATERIAL COVERS ONLY THE BASICS. BOOK 3 OF THIS SERIES DEALS WITH DUSTERS.

AVAILABILITY: INDUSTRIAL TEACHING SYSTEMS, CORP., 570 SEVENTH AVE., NEW YORK, NY 10018 (NO PRICE QUOTED)

INSTITUTION NAME: NATIONAL PEST CONTROL ASSOC.

IRIS ACCESSION NUMBER: EW005408

PUBLICATION DATE: 73

TITLE: SPACE TREATMENT: BOOK 4. GROUP 2: EQUIPMENT.

DESCRIPTOR: CERTIFICATION; EDUCATIONAL PROGRAMS; *ENVIRONMENTAL TECHNICIAN; *EQUIPMENT; INDIVIDUALIZED INSTRUCTION; *INSTRUCTIONAL MATERIALS; *JOB SKILLS; MAINTENANCE; PESTICIDES; POST SECONDARY EDUCATION; *PROGRAMMED MATERIALS; SAFETY; *PEST CONTROL

DESCRIPTIVE NOTE: 37P.

ABSTRACT: THIS TRAINING PROGRAM IS DESIGNED FOR THE PEST CONTROL TECHNICIAN TO HELP FURTHER JOB SKILLS AND EDUCATIONAL BACKGROUND. THE PROGRAM IS WRITTEN IN A SELF-STUDY FORMAT WITH EACH BOOK IN THE CATEGORY SERIES CONTAINING A PRETEST, A LEARNING PROGRAM, AND A POST TEST. THE MATERIAL COVERS ONLY THE BASICS. BOOK 4 OF THIS SERIES DEALS WITH SPACE TREATMENT.

AVAILABILITY: INDUSTRIAL TEACHING SYSTEMS, CORP., 570 SEVENTH AVE., NEW YORK, NY 10018 (NO PRICE QUOTED)

INSTITUTION NAME: NATIONAL PEST CONTROL ASSOC.

IRIS ACCESSION NUMBER: EW005409

PUBLICATION DATE: 73

TITLE: PROPERTIES AND HAZARDS: BOOK 1. GROUP 3: INSECTICIDES.

DESCRIPTOR: CERTIFICATION; EDUCATIONAL PROGRAMS; ENTOMOLOGY; *ENVIRONMENTAL TECHNICIAN; *INDIVIDUALIZED INSTRUCTION; INSECTICIDES; *INSTRUCTIONAL MATERIALS; *JOB SKILLS; PESTICIDES; POST SECONDARY EDUCATION; *PROGRAMMED MATERIALS; *SAFETY; *PEST CONTROL

ABSTRACT: THIS TRAINING PROGRAM IS DESIGNED FOR THE PEST CONTROL TECHNICIAN TO HELP FURTHER JOB SKILLS AND EDUCATIONAL BACKGROUND. THE PROGRAM IS WRITTEN IN A SELF-STUDY FORMAT WITH EACH BOOK IN THE CATEGORY SERIES CONTAINING A PRETEST, A LEARNING PROGRAM, AND A POST TEST. THE MATERIAL COVERS ONLY THE BASICS. BOOK 1 OF THIS SERIES DEALS WITH THE PROPERTIES AND HAZARDS OF INSECTICIDES.

AVAILABILITY: INDUSTRIAL TEACHING SYSTEMS, CORP., 570 SEVENTH AVE., NEW YORK, NY 10018 (NO PRICE QUOTED)

INSTITUTION NAME: NATIONAL PEST CONTROL ASSOC.

IRIS ACCESSION NUMBER: EW005410

PUBLICATION DATE: 73

TITLE: CLASSIFICATION: BOOK 2. GROUP 3: INSECTICIDES.

DESCRIPTOR: CERTIFICATION; CHEMISTRY; EDUCATIONAL PROGRAMS; ENTOMOLOGY; *ENVIRONMENTAL TECHNICIAN; INDIVIDUALIZED INSTRUCTION; *INSECTICIDES; *INSTRUCTIONAL MATERIALS; *JOB SKILLS; PESTICIDES; POST SECONDARY EDUCATION; *PROGRAMMED MATERIALS; SAFETY; *PEST CONTROL

DESCRIPTIVE NOTE: 29P.

ABSTRACT: THIS TRAINING PROGRAM IS DESIGNED FOR THE PEST CONTROL TECHNICIAN TO HELP FURTHER JOB SKILLS AND EDUCATIONAL BACKGROUND. THE PROGRAM IS WRITTEN IN A SELF-STUDY FORMAT WITH EACH BOOK IN THE CATEGORY SERIES CONTAINING A PRETEST, A LEARNING PROGRAM, AND A POST TEST. THE MATERIAL COVERS ONLY THE BASICS. BOOK 2 OF THIS SERIES DEALS WITH THE CLASSIFICATION OF INSECTICIDES.

AVAILABILITY: INDUSTRIAL TEACHING SYSTEMS, CORP., 570 SEVENTH AVE., NEW YORK, NY 10018 (NO PRICE QUOTED)

INSTITUTION NAME: NATIONAL PEST CONTROL ASSOC.

IRIS ACCESSION NUMBER: EW005411
PUBLICATION DATE: 73

TITLE: COMMON INSECTICIDES: BOOK 3. GROUP 3: INSECTICIDES.

DESCRIPTOR: CERTIFICATION; EDUCATIONAL PROGRAMS; ENTOMOLOGY; *ENVIRONMENTAL TECHNICIAN; INDIVIDUALIZED INSTRUCTION; *INSECTICIDES; *INSTRUCTIONAL MATERIALS; *JOB SKILLS; PESTICIDES; POST SECONDARY EDUCATION; *PROGRAMMED MATERIALS; *SAFETY; *PEST CONTROL

DESCRIPTIVE NOTE: 26P.

ABSTRACT: THIS TRAINING PROGRAM IS DESIGNED FOR THE PEST CONTROL TECHNICIAN TO HELP FURTHER JOB SKILLS AND EDUCATIONAL BACKGROUND. THE PROGRAM IS WRITTEN IN A SELF-STUDY FORMAT WITH EACH BOOK IN THE CATEGORY SERIES CONTAINING A PRETEST, A LEARNING PROGRAM, AND A POST TEST. THE MATERIAL COVERS ONLY THE BASICS. BOOK 3 OF THIS SERIES DEALS WITH COMMON INSECTICIDES.

AVAILABILITY: INDUSTRIAL TEACHING SYSTEMS, CORP., 570 SEVENTH AVE., NEW YROK, NY 10018 (NO PRICE QUOTED)

INSTITUTION NAME: NATIONAL PEST CONTROL ASSOC.

IRIS ACCESSION NUMBER: EW005412

PUBLICATION DATE: 73

TITLE: FORMULATIONS; BOOK 4. GROUP 3: INSECTICIDES.

DESCRIPTOR: CERTIFICATION; CHEMISTRY; EDUCATIONAL PROGRAMS; ENTOMOLOGY; *ENVIRONMENTAL TECHNICIAN; INDIVIDUALIZED INSTRUCTION; *INSECTICIDES; *INSTRUCTIONAL MATERIALS; *JOB SKILLS; *PESTICIDES; POST SECONDARY EDUCATION; *PROGRAMMED MATERIALS; *SAFETY; *PEST CONTROL

DESCRIPTIVE NOTE: 21P.

ABSTRACT: THIS TRAINING PROGRAM IS DESIGNED FOR THE PEST CONTROL TECHNICIAN TO HELP FURTHER JOB SKILLS AND EDUCATIONAL BACKGROUND. THE PROGRAM IS WRITTEN IN A SELF-STUDY FORMAT WITH EACH BOOK IN A CATEGORY SERIES CONTAINING A PRETEST, A LEARNING PROGRAM, AND A POST TEST. THE MATERIAL COVERS ONLY THE BASICS. BOOK 4 OF THIS SERIES DEALS WITH THE FORMULATION OF INSECTICIDES.

AVAILABILITY: INDUSTRIAL TEACHING SYSTEMS, CORP., 570 SEVENTH AVE., NEW YROK, NY 10018 (NO PRICE QUOTED)

INSTITUTION NAME: NATIONAL PEST CONTROL ASSOC.

IRIS ACCESSION NUMBER: EW005413

PUBLICATION DATE: 73

TITLE: LABELING AND STORAGE: BOOK 5. GROUP 3: INSECTICIDES.

DESCRIPTOR: CERTIFICATION; EDUCATIONAL PROGRAMS; ENTOMOLOGY; *ENVIRONMENTAL TECHNICIAN; INDIVIDUALIZED INSTRUCTION; INSECTICIDES; *INSTRUCTIONAL MATERIALS; JOB SKILLS; PESTICIDES; *POST SECONDARY EDUCATION; *PROGRAMMED MATERIALS; *SAFETY; *PEST CONTROL

DESCRIPTIVE NOTE: 21P.

ABSTRACT: THIS TRAINING PROGRAM IS DESIGNED FOR THE PEST CONTROL TECHNICIAN TO HELP FURTHER JOB SKILLS AND EDUCATIONAL BACKGROUND. THE PROGRAM IS WRITTEN IN A SELF-STUDY FORMAT WITH EACH BOOK IN THE CATEGORY SERIES CONTAINING A PRETEST, A LEARNING PROGRAM, AND A POST TEST. THE MATERIAL COVERS ONLY THE BASICS. BOOK 5 OF THIS SERIES DEALS WITH THE LABELING AND STORAGE OF INSECTICIDES.

AVAILABILITY: INDUSTRIAL TEACHING SYSTEMS, CORP., 570 SEVENTH AVE., NEW YORK, NY 10018 (NO PRICE QUOTED)

INSTITUTION NAME: NATIONAL PEST CONTROL ASSOC.

IRIS ACCESSION NUMBER: EW005414

PUBLICATION DATE: 73

TITLE: MEASURING, MIXING, AND DISPOSAL: BOOK 6. GROUP 3: INSECTICIDES.

DESCRIPTOR: CERTIFICATION; EDUCATIONAL PROGRAMS; ENTOMOLOGY; *ENVIRONMENTAL TECHNICIAN; INDIVIDUALIZED INSTRUCTION; INSECTICIDES; *INSTRUCTIONAL MATERIALS; JOB SKILLS; *PESTICIDES; POST SECONDARY EDUCATION; *PROGRAMMED MATERIALS; *SAFETY; *PEST CONTROL

DESCRIPTIVE NOTE: 22P.

ABSTRACT: THIS TRAINING PROGRAM IS DESIGNED FOR THE PEST CONTROL TECHNICIAN TO HELP FURTHER JOB SKILLS AND EDUCATIONAL BACKGROUND. THE PROGRAM IS WRITTEN IN A SELF-STUDY FORMAT WITH EACH BOOK IN THE CATEGORY SERIES CONTAINING A PRETEST, A LEARNING PROGRAM, AND A POST TEST. THE MATERIAL COVERS ONLY THE BASICS. BOOK 6 OF THIS SERIES DEALS WITH THE MEASURING, MIXING, AND DISPOSAL OF INSECTICIDES.

AVAILABILITY: INDUSTRIAL TEACHING SYSTEMS, CORP., 570 SEVENTH AVE., NEW YORK, NY 10018 (NO PRICE QUOTED)

INSTITUTION NAME: NATIONAL PEST CONTROL ASSOC.

IRIS ACCESSION NUMBER: EW005415

PUBLICATION DATE: 75

TITLE: TOXICOLOGY OF INSECTICIDES.

PERSONAL AUTHOR: FUMIO MATSUMURA

DESCRIPTOR: *BIODEGRATION; BIOLOGY; CHEMICAL REACTIONS; ENTOMOLOGY; *ENVIRONMENT; *INSECTICIDES; *METABOLITES; *PESTICIDES; TOXICITY; *TOXICOLOGY; *PEST CONTROL

DESCRIPTIVE NOTE: 503P.

ABSTRACT: THIS BOOK, DESIGNED FOR USE BY GRADUATE STUDENTS AND THE GENERAL SCIENTIFIC COMMUNITY, CONTAINS 11 CHAPTERS. THE FIRST CHAPTER GIVES A BRIEF DISCUSSION OF TOXICOLOGY, IN GENERAL, AND DISCUSSES PATTERNS OF PESTICIDE USE AND THE ECONOMIC AND LEGAL ASPECTS OF PESTICIDE USE. THE FOLLOWING CHAPTERS ARE ON GENERAL PRINCIPLES OF INSECTICIDE TOXICOLOGY, CLASSIFICATION OF INSECTICIDES, MODES OF ACTION OF INSECTICIDES, METABOLISM OF INSECTICIDES BY ANIMALS AND PLANTS, ENTRY OF INSECTICIDES INTO ANIMAL SYSTEMS, DYNAMICS OF INSECTICIDE MOVEMENT IN THE ANIMAL BODY, MOVEMENT OF INSECTICIDES IN THE ENVIRONMENT, ENVIRONMENTAL ALTERATION OF INSECTICIDE RESIDUES, EFFECTS OF PESTICIDES ON WILDLIFE, AND HAZARDS TO MAN AND DOMESTIC ANIMALS. A LIST OF REFERENCES IS GIVEN AT THE END OF EACH CHAPTER.

AVAILABILITY: PLENUM PRESS 227 WEST 17TH ST., NEW YORK, NY 10011 ($27.50)

IRIS ACCESSION NUMBER: EW005416

PUBLICATION DATE: 73

TITLE: ENVIRONMENTAL POLLUTION BY PESTICIDES.

PERSONAL AUTHOR: EDWARDS, C. C., ED.

DESCRIPTOR: BIODEGRADATION; *DEGRADATION; *ENVIRONMENT; METABOLITES; PERSISTENT PESTICIDES; *PESTICIDES; *POLLUTION; RESIDUAL PESTICIDES; *RESIDUE; *PEST CONTROL

DESCRIPTIVE NOTE: 542P.

ABSTRACT: THIS BOOK BRINGS TOGETHER DATA ON PESTICIDE RESIDUES, NOT ONLY IN PLANTS AND ANIMALS, BUT ALSO IN AIR, WATER AND SOIL. THE FIRST CHAPTER IS ON METHODS AND PROBLEMS IN ANALYZING PESTICIDE RESIDUES IN THE ENVIRONMENT. THE REMAINING 12 CHAPTERS DISCUSS PESTICIDE RESIDUES IN PLANTS, SOIL INVERTEBRATES, AQUATIC INVERTEBRATES, FISH, BIRDS AND MAMMALS, MAN, FOOD, ATMOSPHERE, SOIL AND WATER, AND THE DEGRATATION OF PESTICIDE RESIDUES IN THE ENVIRONMENT. WHENEVER POSSIBLE, INFORMATION IS PROVIDED IN EACH CHAPTER ON THE FOLLOWING ASPECTS: THE AMOUNTS OF RESIDUES COMMONLY OCCURRING, THE PRINCIPAL SOURCES OF THE RESIDUES, FACTORS INFLUENCING THE PERSISTENCE OF THE RESIDUES, HAZARDS CAUSED BY THE RESIDUES, METHODS OF MINIMIZING OR REMOVING RESIDUES FROM THE ENVIRONMENT AND POSSIBLE FURTHER INVESTIGATIONS.

AVAILABILITY: PLENUM PRESS 227 WEST 17TH ST NEW YORK, NY 10011 ($45.00)

IRIS ACCESSION NUMBER: EW005417

PUBLICATION DATE: 78

TITLE: CLEANING OUR ENVIRONMENT: A CHEMICAL PERSPECTIVE. 2ND EDITION.

DESCRIPTOR: *AIR POLLUTION CONTROL; *CHEMICAL ANALYSIS; ENVIRONMENT; *INSTRUCTIONAL MATERIALS; PESTICIDES; *POST SECONDARY EDUCATION; RADIOACTIVITY; TOXICOLOGY; *WASTE DISPOSAL; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 475P.

ABSTRACT: THIS REPORT BY THE AMERICAN CHEMICAL SOCIETY COMMITTEE ON ENVIRONMENTAL IMPROVEMENT ASSESSES FROM A CHEMICAL POINT OF VIEW WHAT IS KNOWN ABOUT THE ENVIRONMENT AND HOW TO CONSERVE IT AND RECOMMENDS ACTIONS DESIGNED TO EXPAND THAT KNOWLEDGE AND ITS USE. SEVENTY-ONE RECOMMENDATIONS ARE GIVEN ALONG WITH ACCOMPANYING DISCUSSION OR REMARKS. CHAPTERS ARE PRESENTED ON THE FOLLOWING TOPICS: CHEMICAL ANALYSIS AND MONITORING, TOXICOLOGY, THE AIR ENVIRONMENT, THE WATER ENVIRONMENT, SOLID WASTES, PESTICIDES IN THE ENVIRONMENT, AND RADIATION IN THE ENVIRONMENT.

AVAILABILITY: AMERICAN CHEMICAL SOCIETY, 1155 SIXTEENTH ST., NW, WASHINGTON, D.C. 20036 ($9.50)

INSTITUTION NAME: AMERICAN CHEMICAL SOCIETY, COMMITTEE OF ENVIRONMENTAL IMPROVEMENT.

IRIS ACCESSION NUMBER: EW005418

PUBLICATION DATE: 78

TITLE: HYGIENE AND TOXICOLOGY, VOL I GENERAL PRINCIPLES PATTYS INDUSTRIAL 3RD REVISED ED.

PERSONAL AUTHOR: CLAYTON, GEORGE S., CLAYTON, FLORENCE E., EDITORS

DESCRIPTOR: *HAZARDS; HEALTH; *INDUSTRY; INSTRUMENTATION; *POLLUTION; *PUBLIC HEALTH; *SAFETY; *SANITATION; *TOXICOLOGY; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 1466P.

ABSTRACT: THIS VOLUME COVERS SUCH TOPICS AS AIR POLLUTION, AGRICULTURAL HAZARDS, ODORS, HEAT STRESS, INDUSTRIAL SANITATION, FIRE AND EXPLOSION HAZARDS, ATMOSPHERIC CONTAMINANTS, PULMONARY EFFECTS OF INHALED DUSTS, OCCUPATIONAL DERMATOSIS, LEGISLATIVE TRENDS, REPORTS AND RECORD KEEPING, EPIDEMIOLOGY, ABNORMAL ATMOSPHERIC PRESSURE, NOISE AND CONSERVATION OF HEARING, LIGHTING, RADIATION, AND CALIBRATION OF INSTRUMENTS. BOTH RECENT DEVELOPMENTS AND HISTORICAL DATA ARE GIVEN. ALSO INCLUDED ARE METHODS OF EVALUATION AND SAMPLES OF METHODS OF RECORD KEEPING.

AVAILABILITY: JOHN WILEY & SONS 605 THIRD AVE., NEW YORK, NY 10016 ($75.00)

IRIS ACCESSION NUMBER: EW005419
PUBLICATION DATE: 78

TITLE: RESPONSE OF SELECTED WOODY PLANTS IN UNITED STATES TO HERBICIDES.

PERSONAL AUTHOR: BOVEY, RODNEY W.

DESCRIPTOR: *APPLICATION METHODS; BROADCAST APPLICATION; *BRUSH CONTROL; *HERBICIDES; *PESTICIDES; *PHENOXY ACIDS; RESEARCH; *SOIL APPLICATION; *PEST CONTROL

DESCRIPTIVE NOTE: 101P.

ABSTRACT: THIS HANDBOOK REPORTS CURRENT RESEARCH FINDINGS ON THE RESPONSE OF BRUSH AND TREES TO THE MOST PROMISING HERBICIDES. THE HERBICIDES LISTED INCLUDE OLDER, WELL ESTABLISHED HERBICIDES SUCH AS THE PHENOXY COMPOUNDS AS WELL AS SEVERAL NEW MATERIALS. THE MAIN PART OF THE HANDBOOK GIVES, IN CHART FORM, THE SUSCEPTIBILITY OF THE WOODY PLANTS TO HERBICIDES. IT LISTS THE SUSCEPTIBILITY AS SUSCEPTIBLE, SUSCEPTIBLE TO INTERMEDIATE, INTERMEDIATE, INTERMEDIATE TO RESISTANT, OR RESISTANT. THE SUSCEPTIBILITY IS GIVEN FOR EACH HERBICIDE WITH FOUR APPLICATION METHODS: BASAL SPRAY, FOLIAR, SURFACE TREATMENT, AND SOIL TREATMENT. THE HERBICIDES ARE CLASSIFIED AS SELECTIVE, NONSELECTIVE AND SOIL EFFECTIVE. GENERAL INFORMATION IS ALSO GIVEN ON CHARACTERISTICS OF HERBICIDES, AND APPLICATION METHODS.

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, GPO WASHINGTON, DC 20402 ($2.75)

IRIS ACCESSION NUMBER: EW005420

PUBLICATION DATE: 73

TITLE: EFFECTS OF DDT ON MAN AND OTHER MAMMALS: I

DESCRIPTOR: BIOLOGY; *CHLORINATED HYDROCARBONS; *METABOLITES; *PESTICIDES; POISON; *PHYSIOLOGY; PHYTOTOXICITY; RESIDUE; TOXICITY; *TOXICOLOGY; *DDT

DESCRIPTIVE NOTE: 163P.

ABSTRACT: THIS BOOK CONTAINS THIRTEEN PAPERS, PUBLISHED RECENTLY (1970-1972), ON THE OCCURRENCE OF DDT IN MAN, THE PHYSIOLOGICAL EFFECTS OF DDT IN MAN, AND DDT IN THE ECOSYSTEM. SOME OF THE TOPICS PRESENTED ARE: THE EXPOSURE OF FORMULATING PLANT WORKERS TO DDT, CHLORINATED HYDROCARBON PESTICIDE RESIDUES IN HUMAN TISSUES, URINARY EXCRETION OF DDT FOLLOWING INGESTION OF DDT AND DDT METABOLITES, EFFECTS OF INTENSIVE OCCUPATIONAL EXPOSURE TO DDT ON PHENYLBUTAZONE AND METABOLISM IN HUMAN SUBJECTS, AND DDT RESDUES IN MARINE PHYTOPLANKTON.

AVAILABILITY: ARNO PRESS INC., DEPT #F, P.O. BOX 978 , EDISON, NJ 10017 ($19.00)

INSTITUTION NAME: MSS INFORMATION CORP., 655 MADISON AVE., NEW YORK, NY 10021.

IRIS ACCESSION NUMBER: EW005421
PUBLICATION DATE: 76

TITLE: EPIDEMIOLOGY AND DETECTION OF LEAD TOXICITY.

PERSONAL AUTHOR: HARDY, HARRIET L., AND OTHERS.

DESCRIPTOR: ANALYSIS; CHEMICAL ANALYSIS; ENVIRONMENT; EPA; *EPIDEMIOLOGY; INHALATION TOXICITY; *LEAD; *POISON; *TOXICITY; *TOXICOLOGY

DESCRIPTIVE NOTE: 151P.

ABSTRACT: THIS BOOK CONTAINS THIRTEEN PAPERS ON LEAD POISONING. TOPICS INCLUDE THE EPIDEMIOLOGICAL ASPECTS OF LEAD POISONING, LEAD IN THE ENVIRONMENT, PICA, AND LEAD POISONING IN CHILDREN. THE TOXIC EFFECTS OF LEAD ON INDUSTRIAL WORKERS INHALING LEAD VAPORS, AND SCREENING TECHNIQUES FOR LEAD EXPOSURE ARE ALSO COVERED.

AVAILABILITY: ARNO PRESS INC., DEPT. #F. P.O. BOX 978, EDISON, NJ 10017 ($19.00)

IRIS ACCESSION NUMBER: EW005422

PUBLICATION DATE: 73

TITLE: INSECT PEST MANAGEMENT.

PERSONAL AUTHOR: SHEPARD, MERLE
DESCRIPTOR: BIOLOGICAL CONTROL; *ECOLOGY; *ECONOMICS; INSECTICIDES; *INSECTS; *INTEGRATED CONTROL; PESTICIDES; *PEST CONTROL; *INTEGRATED PEST MANAGEMENT

DESCRIPTIVE NOTE: 269P.

ABSTRACT: THIS BOOK CONTAINS 15 ARTICLES ON INSECT PEST MANAGEMENT. TOPICS INCLUDE THE ECOLOGICAL BACKGROUND TO PEST MANAGEMENT, THE USE OF IMPORTED NATURAL ENEMIES IN INSECT PEST MANAGEMENT, PLANT-INSECT INTERACTIONS, ECONOMIC CONSIDERATIONS, INTEGRATED CONTROL, THE USES AND LIMITATIONS OF PESTICIDES, SAMPLING METHODS, AND INTEGRATED SYSTEMS OF PEST MANAGEMENT.

AVAILABILITY: ARNO PRESS INC., DEPT # F, P.O. BOX 978, EDISON, NJ 10017 ($8.50)

IRIS ACCESSION NUMBER: EW005423

PUBLICATION DATE: 73

TITLE: BIOLOGICAL EFFECTS OF DDT IN LOWER ORGANISMS.

PERSONAL AUTHOR: DINAMARCA, MARIE LUISA; AND OTHERS

DESCRIPTOR: BIOLOGY; *CHEMICAL ANALYSIS; CHEMISTRY; ECOLOGY; *INSECTICIDES; INSECTS; *INVERTEBRATES; METABOLITES; MICROBIOLOGY; *PESTICIDES; *VERTEBRATES; *DDT

DESCRIPTIVE NOTE: 238P.

ABSTRACT: THIS COLLECTION OF 24 PAPERS, PUBLISHED FROM 1970 TO 1972, DOCUMENTS THE EFFECTS OF DDT IN LOWER VERTEBRATES AND INVERTEBRATES. BIODEGRADATION OF DDT IN MICRO-ORGANISMS AND IN INSECT TISSUES IS CONSIDERED IN BIOCHEMICAL DETAIL IN THE FIRST SECTION, WHILE DDT EFFECTS IN BIRDS ARE DISCUSSED IN LATER SECTIONS. CHEMICAL ANALYSIS OF DDT AND ITS DERIVATIVES ARE DESCRIBED, AND THE PHENOMENON OF DDT RESISTANCE IN INSECTS IS EVALUATED.

AVAILABILITY: ARNO PRESS INC., DEPT. # F, P.O. BOX 978, EDISON, NJ 10017 ($19.00)

IRIS ACCESSION NUMBER: EW005424

PUBLICATION DATE: 77

TITLE: BIOLOGICAL CONTROL BY AUGMENTATION OF NATURAL ENEMIES. INSECT AND MITE CONTROL WITH PARASITES AND PREDATORS.

PERSONAL AUTHOR: RIDGWAY, R.L.; VINSON, S.B.

DESCRIPTOR: *BIOLOGICAL CONTROL; BIOLOGICAL SCIENCES; ENTOMOLOGY; *INSECTS; *INSTRUCTIONAL MATERIALS; MITES; NEMATODES; *PARASITES; *PESTS; POST SECONDARY EDUCATION; *PREDATORS

DESCRIPTIVE NOTE: 480P.

ABSTRACT: THIS BOOK IS DEVOTED TO THE BIOLOGICAL CONTROL OF INSECTS BY AUGMENTATION OF PARASITES AND PREDATORS (INSECTS, MITES, AND NEMOTODES). IT IS DIVIDED INTO FOUR SECTIONS. THE FIRST SECTION BRINGS INTO FOCUS SOME OF THE BIOLOGICAL PRINCIPLES THAT PROVIDE A BASIS FOR THE AUGMENTATION OF NATURAL ENEMIES. THESE INCLUDE PRINCIPLES OF POPULATION DYNAMICS AND ECOLOGICAL CONSIDERATIONS. THE SECOND SECTION OF THE BOOK DEALS WITH SOME OF THE POTENTIALLY IMPORTANT METHODOLOGY THAT MAY HAVE AN IMPORTANT IMPACT ON AUGMENTATION APPROACHES TO CONTROL WITH NATURAL ENEMIES. SECTION THREE IS DEVOTED TO DESCRIBING AND DISCUSSING THE SUCCESSFUL AUGMENTATION APPROACHES TO NATURAL ENEMY ACTION IN VARIOUS REGIONS OF THE WORLD. MANY TECHNIQUES, PROCEDURES, AND STRATEGIES ARE DESCRIBED, INCLUDING SUCCESSES AND METHODS EMPLOYED IN THE U.S.S.R. THE LAST SECTION IS CONCERNED WITH THE ECONOMIC FEASIBILITY OF MASS REARING AND RELEASE OF NATURAL ENEMIES AND WITH PROBLEMS ASSOCIATED WITH THIS KIND OF INVESTMENT.

AVAILABILITY: PLENUM PUBLISHING CORP., 227 WEST 17TH ST., NEW YORK, NY 10011 ($39.00)

IRIS ACCESSION NUMBER: EW005425

PUBLICATION DATE: 77

TITLE: PESTICIDES IN THE ENVIRONMENT: VOL 3.

PERSONAL AUTHOR: WHITE-STEVENS, ROBERT

DESCRIPTOR: ENVIRONMENT; *CROPS; *FORESTS; *GRAIN CROPS; HERBICIDES; INSECTICIDES; *PEST CONTROL; *PESTICIDES; *WEEDS

DESCRIPTIVE NOTE: 366P.

ABSTRACT: THIS VOLUME, CONTINUING THE DISCUSSION OF THE USE OF PESTICIDES IN THE PRODUCTION OF FOOD, FIBER, AND SHELTER, CONSIDERS WEED CONTROL, FOREST MANAGEMENT, AND THE PRESERVATION OF STORED PRODUCTS. CHAPTER ONE, ON THE ROLE OF HERBICIDES IN CROP PRODUCTION, DISCUSSES (1) THE IMPORTANCE OF WEED CONTROL TO MODERN AGRICULTURE; (2) THE DIVERSITY OF WEED SPECIES; (3) WEED CONTROL METHODS; (4) THE CLASSIFICATION, PROPERTIES, AND USES OF HERBICIDES; AND (5) FACTORS AFFECTING HERBICIDE PERFORMANCE. CHAPTER TWO, ON THE ROLE OF PESTICIDES IN THE MANAGEMENT OF AMERICAN FORESTS, DISCUSSES: (1) PESTS OF MATURE TREES; (2) MAKING PEST-CONTROL DECISIONS; AND (3) THE USE OF PESTICIDES IN THE FOREST ENVIRONMENT. FINALLY, CHAPTER THREE IS ON THE ROLE OF PESTICIDES IN PRESERVATION OF STORED GRAIN AND GRAIN PRODUCTS. IT COVERS INSECT PESTS, APPLICATION OF PEST-CONTROL PRINCIPLES, PESTICIDE RESIDUES, SAFE USE OF PESTICIDES, AND RECENT PESTICIDE LEGISLATION.

AVAILABILITY: MARCEL DEKKER, INC., 270 MADISON AVE, NEW YORK, NY 10016 ($38.50)

IRIS ACCESSION NUMBER: EW005426

PUBLICATION DATE: 73

TITLE: EFFECTS OF DDT ON MAN AND OTHER MAMMALS II.

DESCRIPTOR: *BIOLOGY; CHLORINATED HYDROCARBONS; ENVIRONMENT; *HERBICIDES; *MAMMALS; *METABOLITES; *ORGANOCHLORINES; *PESTICIDES; PHYSIOLOGY; *TOXICITY; TOXICOLOGY; *DDT

DESCRIPTIVE NOTE: 165P.

ABSTRACT: THIS COLLECTION OF RECENT PAPERS (PUBLISHED 1970-1972) PROVIDES THE LATEST INFORMATION ON THE EFFECTS OF DDT IN HUMANS AND IN OTHER MAMMALS. DDT IS REPORTED TO DISPLAY VARIOUS TOXIC AND PHYSIOLOGICAL EFFECTS IN HUMANS. AMONG THE REPORTED EFFECTS OF DDT ARE ITS INFLUENCES ON MAMMALIAN ENDOCRINE SYSTEMS CONCERNED WITH REPRODUCTION AND ITS STIMULATION OF VARIOUS LIVER ENZYMES. PAPERS DEALING WITH THE DEGENERATIVE METABOLISM OF DDT IN MAMMALIAN TISSUES AND WITH ASPECTS OF DDT IN THE ECOSYSTEM ARE ALSO INCLUDED.

AVAILABILITY: ARNO PRESS INC., DEPT. # F, P.O. BOX 978, EDISON, NJ 10017 ($19.00)

INSTITUTION NAME: MSS INFORMATION CORP. 655 MADISON AVE., NEW YORK, NY 10021.

IRIS ACCESSION NUMBER: EW005427

PUBLICATION DATE: 78

TITLE: DISPOSAL AND DECONTAMINATION OF PESTICIDES.

PERSONAL AUTHOR: KENNEDY, MAURICE V.
DESCRIPTOR: AGRICULTURE; *DEGRADATION; FUNGICIDES; HERBICIDES; INSECTICIDES; *INSTRUCTIONAL MATERIALS; *PESTICIDES; *POLLUTION; *POST SECONDARY EDUCATION; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 158P.

ABSTRACT: THE AIM OF THIS VOLUME IS TO PRESENT SEVERAL METHODS FOR DISPOSAL AND DECONTAMINATION OF PESTICIDES THAT HAVE EITHER BEEN SUCCESSFUL OR SHOW A GREAT DEAL OF PROMISE. THIRTEEN PAPERS ARE PRESENTED. TOPICS INCLUDE: PHOTODECOMPOSITION AND THE PHOTOCHEMICAL DESTRUCTION OF CHLORODIOXINS AND HALOGENATED XANTHENE DYES, CATALYTIC HYDRODECHLORINATION OF POLYCHLORINATED HYDROCARBONS, THE MICROWAVE PLASMA PROCESS, THERMAL DEGRADATION OF FUNGICIDES AND INSECTICIDES, PYROLYSIS AND DISPOSAL OF MIREX RESIDUES, MOLTEN SALT COMBUSTION, BINDING AND RELEASE OF INSECTICIDE RESIDUES IN SOILS, DIELDRIN ELIMINATION FROM ANIMAL TISSUES, AND CHLORINE-MERCURY INTERACTIONS IN MERCURY DERIVATIVES OF POLYCHLORINATED PHENOLS AND OTHER CHLOROCARBONS.

AVAILABILITY: AMERICAN CHEMICAL SOCIETY, 1155 16TH ST. NW, WASHINGTON, D.C. 20036 ($20.00)

IRIS ACCESSION NUMBER: EW005428

PUBLICATION DATE: MAR 77

TITLE: PESTICIDE APPLICATOR TRAINING MANUAL. CATEGORY 7. INDUSTRIAL, INSTITUTIONAL, STRUCTURAL AND HEALTH RELATED PEST CONTROL. SUBCATEGORY-TERMITES.

PERSONAL AUTHOR: DEWEY, J.E., ED.; PENDLETON, R.F., ED

DESCRIPTOR: *CERTIFICATION; *ENTOMOLOGY; FUMIGATION; INSTRUCTIONAL MATERIALS; *INSECTICIDES; *MANUALS; POST SECONDARY EDUCATION; *PESTICIDES; *PEST CONTROL; REGULATIONS; *TERMITES

DESCRIPTIVE NOTE: 86P.

ABSTRACT: THIS MANUAL PROVIDES THE INFORMATION NEEDED TO MEET THE STANDARDS OF THE U.S. ENVIORNMENTAL PROTECTION AGENCY FOR COMMERCIAL CERTIFICATION AS A PESTICIDE APPLICATOR FOR TERMITE CONTROL. THE TOPICS DISCUSSED INCLUDE: (1) THE CHARACTERISTICS AND BIOLOGY OF THE SUBTERRANEAN TERMITE; (2) SUBTERRANEAN TERMITE PREVENTION AND CONTROL; (3) FEDERAL REGULATIONS; (4) TERMITE APPLICATION EQUIPMENT; (5) PROBLEMS AND HAZARDS; AND (6) OTHER TERMITES AND WOOD BORING INSECTS.

AVAILABILITY: NEW YORK STATE, COLLEGE OF AGRICULTURE, AND LIFE SCIENCES, CORNELL UNIVERSITY, ITHACA, NEW YORK (NO PRICE QUOTED)

IRIS ACCESSION NUMBER: EW005429
PUBLICATION DATE: DEC 77

TITLE: PROCEEDINGS OF NATIONAL PEST MANAGEMENT WORKSHOP 1977, KANSAS CITY, MISSOURI.

PERSONAL AUTHOR: ESSLINGER, DON, ED.

DESCRIPTOR: *AGRICULTURAL PRODUCTION; BIOLOGY; CROPS; EDUCATIONAL PROGRAMS; *ENVIRONMENTAL INFLUENCES; ENTOMOLOGY; *INTEGRATED PEST MANAGEMENT; *MANAGEMENT; PESTICIDES; PLANT PATHOLOGY; *RESEARCH; STATE PROGRAMS; TECHNOLOGY

ABSTRACT: THIS DOCUMENT CONTAINS THE PAPERS PRESENTED AT THE NATIONAL PEST MANAGEMENT WORKSHOP, KANSAS CITY, MISSOURI, IN 1977. THE PRESENTATIONS ADDRESS THE VARIOUS ASPECTS OF INTEGRATED PEST MANAGEMENT PROGRAMS, INCLUDING: (1) COORDINATING PRACTICAL FIELD EXPERIENCES; (2) IDENTIFYING RESEARCH TECHNOLOGY; (3) EVALUATING ALTERNATIVE STRATEGIES; AND (4) IMPLEMENTING EDUCATIONAL PROGRAMS. TOPICAL AREAS FOR THIS WORKSHOP FOCUSED ON CORN, FORAGE ALFALFA, SOYBEANS, SUNFLOWERS, AND WHEAT. REPORTS ARE ALSO INCLUDED FOR SPECIFIC PILOT PROJECTS IN VARIOUS STATES.

IRIS ACCESSION NUMBER: EW005430

PUBLICATION DATE: 76

TITLE: HANDBOOK OF VENTILATION FOR CONTAMINANT CONTROL.

PERSONAL AUTHOR: MCDERMOTT, HENRY J.

DESCRIPTOR: ECONOMICS; *ENVIRONMENT; EQUIPMENT; *GASES; INDUSTRY; *POLLUTION; *SAFETY; *STANDARDS; *VENTILATION; *OCCUPATIONAL SAFETY AND HEALTH ACT

DESCRIPTIVE NOTE: 400P.

ABSTRACT: THIS BOOK IS DESIGNED TO COVER THE TECHNOLOGY OF INDUSTRIAL EXHAUST VENTILATION FOR CONTAMINANT CONTROL AND PROVIDE A SUMMARY AND EXPLANATION OF OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) STANDARDS. IT EXPLAINS WHAT THOSE RESPONSIBLE FOR IMPLEMENTING AND MEETING OSHA STANDARDS HAVE TO KNOW IN CONNECTION WITH EXHAUST VENTILATION, AND IT SUPPLIES GUIDELINES FOR DETERMINING WHETHER OR NOT STANDARDS ARE BEING MET. FURTHER, IT GIVES DETAILED INSTRUCTIONS FOR DESIGNING AND INSTALLING PRACTICAL AND ECONOMICAL VENTILATION SYSTEMS THAT SATISFY OSHA REQUIREMENTS AS WELL AS HEALTH AND SAFETY NEEDS OF EMPLOYEES. INCLUDED IN THE BOOK ARE CHAPTERS ON OSHA VENTILATION STANDARDS, HAZARD ASSESSMENT, HOW LOCAL EXHAUST SYSTEMS WORK, HOOD SELECTTION AND DESIGN, VENTILATION SYSTEM DESIGN, FANS, VENTILATION FOR HIGH TOXICITY OR NUISANCE CONTAMINANTS, SAVING VENTILATION DOLLARS, TESTING AND SOLVING VENTILATION SYSTEM PROBLEMS.

AVAILABILITY: ANN ARBOR SCIENCE PUB. INC., P.O. BOX 1425, ANN ARBOR, MI 48106 ($29.50)

IRIS ACCESSION NUMBER: EW005431

PUBLICATION DATE: JAN 77

TITLE: PESTICIDE APPLICATOR TRAINING MANUAL CATEGORY 7. INDUSTRIAL, INSTITUTIONAL, STRUCTURAL AND HEALTH RELATED PEST CONTROL. SUBCATEGORY-STRUCTURAL AND RODENT.

PERSONAL AUTHOR: DEWEY, J.E., ED.; PENDLETON, R.F. ED

DESCRIPTOR: *ANIMAL PESTS; *CERTIFICATION; ENTOMOLOGY; FUMIGATION; INSTRUCTIONAL MATERIALS; *INSECTICIDES; MANUALS; POST SECONDARY EDUCATION; *PESTICIDES; PEST CONTROL; *RODENTICIDES; REGULATIONS; *STRUCTURAL PEST CONTROL

DESCRIPTIVE NOTE: 140P.

ABSTRACT: THIS MANUAL PROVIDES THE INFORMATION NEEDED TO MEET THE STANDARDS OF THE U.S. ENVIRONMENTAL PROTECTION AGENCY FOR COMMERCIAL CERTIFICATION AS A PESTICIDE APPLICATOR FOR CONTROL OF RODENTS AND OTHER STRUCTURAL PESTS. THE TOPICS DISCUSSED INCLUDE: (1) MANAGEMENT TO REDUCE PEST PROBLEMS; (2) FEDERAL REGULATIONS; (3) LABELING; (4) BIRD CONTROL; (5) BATS AND MISCELLANEOUS PEST ANIMALS; (6) RODENTS; AND (7) INSECTS AND ARTHROPODS. A LIST OF STUDY QUESTIONS IS ALSO INCLUDED.

AVAILABILITY: NEW YORK STATE COLLEGE OF AGRICULTURE AND LIFE SCIENCES, CORNELL UNIVERSITY, ITHACA, NEW YORK (NO PRICE QUOTED)

IRIS ACCESSION NUMBER: EW005432

TITLE: THE LIVING SOIL.

DESCRIPTOR: *AGRICULTURAL PRODUCTION; CROPS; ENVIRONMENTAL INFLUENCES; ENTOMOLOGY; *FILMS; *INSTRUCTIONAL MATERIALS; *PESTICIDES; PLANT GROWTH; *POST SECONDARY EDUCATION; SOIL; RESEARCH OPERATIONS (PESTICIDES)

ABSTRACT: IN THIS FILM SCIENTISTS STUDY THE LIFE CYCLES OF ORGANISMS INHABITING THE SOIL, ESPECIALLY THOSE WHICH ATTACK CULTIVATED PLANTS BY FEEDING ON THEIR ROOTS. PEST ORGANISMS DEPICTED INCLUDE WHITE GRUBS, WIREWORMS, AND NEMATODES. THE FILM ALSO SHOWS THE PROPER WAYS OF APPLYING INSECTICIDES TO COMBAT THE PESTS WHICH ARE PARTICULARLY DETRIMENTAL IN AGRICULTURAL CROP PRODUCTION.

AVAILABILITY: SHELL FILMS, 1433 SADLIER CR. W. DR., INDIANAPOLIS, IN 46239 (NO RENTAL FEE)

INSTITUTION NAME: SHELL FILMS.

IRIS ACCESSION NUMBER: EW005433

PUBLICATION DATE: MAR 78

TITLE: PROCEEDINGS OF NATIONAL PEST MANAGEMENT WORKSHOP. 1978, GAINESVILLE, FLORIDA.

DESCRIPTOR: AGRICULTURAL PRODUCTION; BIOLOGY; CROPS; *CONFERENCES; *ENVIRONMENTAL INFLUENCES; ENTOMOLOGY; *INTEGRATED PEST MANAGEMENT; *MANAGEMENT; *PESTICIDES; PLANT PATHOLOGY; *RESEARCH; STATE PROGRAMS; TECHNOLOGY

DESCRIPTIVE NOTE: 220P.

ABSTRACT: THIS DOCUMENT CONTAINS THE PAPERS PRESENTED AT THE NATIONAL PEST MANAGEMENT WORKSHOP, GAINESVILLE, FLORIDA, IN 1978. THE PRESENTATIONS ADDRESS THE VARIOUS ASPECTS OF INTEGRATED PEST MANAGEMENT PROGRAMS, INCLUDING: (1)COORDINATING PRACTICAL FIELD EXPERIENCES; (2)IDENTIFYING RESEARCH TECHNOLOGY; (3)DEVELOPING EFFECTIVE METHODS; (4)EVALUATING ALTERNATIVE STRATEGIES; AND (5)IMPLEMENTING EDUCATIONAL PROGRAMS. TOPICAL AREAS FOR THIS WORKSHOP FOCUSED ON PEACHES, PECANS, VEGETABLES, TOBACCO, SOYBEANS, AND COTTON. REPORTS ARE ALSO INCLUDED FOR SPECIFIC PILOT PROJECTS IN VARIOUS STATES.

IRIS ACCESSION NUMBER: EW005434

PUBLICATION DATE: SEP 76

TITLE: PESTICIDE APPLICATOR TRAINING MANUAL. CATEGORY 7. INDUSTRIAL, INSTITUTIONAL, STRUCTURAL AND HEALTH RELATED PEST CONTROL. SUBCATEGORY-FOOD PROCESSING.

PERSONAL AUTHOR: DEWEY, J.E., ED.; PENDLETON, R.F., ED.

DESCRIPTOR: CERTIFICATION; FUMIGATION; *FOOD PROCESSING; *HEALTH RELATED PEST CONTROL; *INSTRUCTIONAL MATERIALS; LABELING; *MANUAL; MANAGEMENT; *POST SECONDARY EDUCATION; PESTICIDES; *PEST CONTROL; REGULATION; *SANITATION

DESCRIPTIVE NOTE: 142P.

ABSTRACT: THIS MANUAL PROVIDES THE INFORMATION NEEDED TO MEET THE STANDARDS OF THE U.S. ENVIRONMENTAL PROTECTION AGENCY FOR COMMERCIAL CERTIFICATION AS A PESTICIDE APPLICATOR FOR FOOD PROCESSING. THE TOPICS DISCUSSED INCLUDE: (1) MANAGEMENT TO REDUCE PEST PROBLEMS; (2) REGULATIONS; (3) REPRESENTATIVE LABELS FOR DIFFERENT APPLICATIONS; (4) PESTS ASSOCIATED WITH FOOD MANUFACTURING PLANTS; (5) FUMIGATION; AND (6) CREATION OF AN IN-HOUSE SANITATION PROGRAM. INCLUDED IN THE MANUAL IS A PICTORAL KEY FOR IDENTIFICATION OF COMMON PESTS AND A LIST OF STUDY QUESTIONS.

AVAILABILITY: NEW YORK STATE COLLEGE OF AGRICULTURE AND LIFE SCIENCES CORNELL UNIVERSITY, ITHACA, NEW YORK (NO PRICE)

IRIS ACCESSION NUMBER: EW005435

PUBLICATION DATE: 78

TITLE: ENVIRONMENTAL ANALYSIS FOR LAND USE AND SITE PLANNING.

PERSONAL AUTHOR: MARSH, WILLIAM M.

DESCRIPTOR: BOTANY; *ENVIRONMENTAL RESEARCH; *LAND USE; *MAP SKILLS; *NATURAL RESOURCES; *PHYSICAL GEOGRAPHY; PLANNING; *SOIL SCIENCE

DESCRIPTIVE NOTE: 292P.

ABSTRACT: ILLUSTRATED IS A METHODOLOGY FOR THE GENERATION OF ENVIRONMENTAL INFORMATION FROM READY SOURCES OF PROCESSED DATA. GOVERNMENTAL SOURCES OF DATA AND INFORMATION ARE IDENTIFIED AND APPLICATION METHODS ARE DISCUSSED. THE FIRST FIVE CHAPTERS DEAL WITH THE TECHNIQUES OF TERRAIN ANALYSIS, INCLUDING MEASUREMENT AND SAMPLING, MAPPING, VEGETATION INTERPRETATION, AND FLOOD ANALYSIS. THE REMAINING CHAPTERS EXAMINE THE USE OF ENVIRONMENTAL INFORMATION IN PLANNING, INCLUDING THE TYPES OF TASKS AND PROBLEMS FOR WHICH IT IS PRODUCED AND THE METHODS THAT CAN BE EMPLOYED TO COMMUNICATE IT.

AVAILABILITY: MCGRAW-HILL BOOK CO., MANCHESTER RD., MANCHESTER, MO 63011 ($22.5)

IRIS ACCESSION NUMBER: EW005436

PUBLICATION DATE: 75

TITLE: ENVIRONMENTAL POLLUTANTS: SELECTED ANALYTICAL METHODS (SCOPE 6).

DESCRIPTOR: *AIR POLLUTION CONTROL; *CHEMICAL ANALYSIS; *ENVIRONMENTAL INFLUENCES; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; *MEASUREMENT TECHNIQUES; *POLLUTION; POST SECONDARY EDUCATION; PUBLIC HEALTH; *POLLUTANTS

DESCRIPTIVE NOTE: 277P.

ABSTRACT: THIS BOOK FOCUSES ON SPECIFIC ANALYTICAL TECHNIQUES FOR DETERMINATION OF POLLUTANTS IN THE AIR. AMONG THE METHODS DISCUSSED ARE ATOMIC ABSORPTION, SPECTROPHOTOMETRY, COULOMETRIC TITRATION, INFRARED SPECTROMETRY AND FLAME IONIZATION AND DETECTION. POLLUTANTS DEALT WITH INCLUDE ZINC, COPPER, SULFUR DIOXIDE, CARBON MONOXIDE, DDT AND RELATED COMPOUNDS, POLYCHLOROBIPHENYLS AND NITROGEN OXIDES. EACH TECHNIQUE IS EXPLAINED WITH INFORMATION ON THE PRINCIPLE OF THE REACTION, REAGENTS AND MATERIALS, APPARATUS, SAMPLING, PROCEDURE, NOTES AND REFERENCES.

AVAILABILITY: ANN ARBOR SCIENCE PUB., P.O. BOX 1425, ANN ARBOR, MI 48106 ($22.50)

INSTITUTION NAME: ANN ARBOR SCIENCE PUBLISHERS.

IRIS ACCESSION NUMBER: EW005437

PUBLICATION DATE: 76

TITLE: TOXIC METALS POLLUTION CONTROL AND WORKER PROTECTION.

PERSONAL AUTHOR: SITTIG, MARSHALL

DESCRIPTOR: ENVIRONMENTAL CRITERIA; *INDUSTRIAL TECHNOLOGY; INDUSTRY; *INSTRUCTIONAL MATERIALS; *METAL INDUSTRY; METALS; *POLLUTION; POST SECONDARY EDUCATION; REFERENCE MATERIALS; *SAFETY; TECHNICAL EDUCATION; WASTE DISPOSAL; *WORK ENVIRONMENT

DESCRIPTIVE NOTE: 350P.

ABSTRACT: THIS IS A PRACTICAL BOOK ABOUT THOSE METALS AND THEIR COMPOUNDS THAT ARE MOST LIKELY TO CAUSE POISONING IN INDUSTRY WHILE BEING PROCESSED AND IN THE ENVIRONMENT WHILE THE PROCESS EFFLUENTS ARE BEING DISPOSED. AN INTRODUCTION WITH THE EXPLANATION OF TOXIC METALS AND HEAVY METALS IS PRESENTED. THE 18 CHAPTERS INCLUDED COVER THESE TOXIC METALS: ANTIMONY, ARSENIC, BARIUM, BERYLLIUM, BORON, CADMIUM, CHROMIUM, COPPER, INDIUM, LEAD, MANGAMESE, MERCURY, MOLYBDENUM, NICKEL, SELENIUM, TIN, VANADIUM, AND ZINC. EACH CHAPTER IS ORGANIZED IN THE FOLLOWING WAY TO COVER EACH OF THE TOXIC METALS: (1) TOXICITY; (2) EXTENT OF EXPOSURE; (3) DETECTION; (4) ENVIRONMENTAL STANDARDS; (5) HANDLING PROCEDURES; (6) REMOVAL FROM AIR; (7) REMOVAL FROM WATER; (8) SOLID DISPOSAL; AND (9) THE ECONOMIC IMPACT OF CONTROLS. A BIBLIOGRAPHIC REFERENCE LIST IS PRESENTED AT THE END OF EACH CHAPTER.

AVAILABILITY: NOYES DATA CORP., NOYES BLDG., PARK RIDGE, NJ 07656 ($39.00)

IRIS ACCESSION NUMBER: EW005438

PUBLICATION DATE: 75

TITLE: RESOURCE RECOVERY AND RECYCLING HANDBOOK OF INDUSTRIAL WASTES.

PERSONAL AUTHOR: SITTIG, MARSHALL

DESCRIPTOR: AIR POLLUTION CONTROL; ENVIRONMENT; *ENVIRONMENTAL RESEARCH; *INDUSTRIAL TECHNOLOGY; MANUFACTURING; NATURAL RESOURCES; *POLLUTION; PUBLIC HEALTH; *RECYCLING; *REFERENCE MATERIALS; *WASTE DISPOSAL; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 427P.

ABSTRACT: THIS VOLUME CONCENTRATES ON THE PROCESS TECHNOLOGY AVAILABLE FOR RESOURCE RECOVERY AND RECYCLING OF INDUSTRIAL WASTES. DATA ARE CONDENSED FROM U.S. GOVERNMENT-SPONSORED PROJECTS AND RECENT U.S. PATENTS. ENTRIES ARE ARRANGED IN AN ALPHABETICAL AND ENCYCLOPEDIC MANNER AND INCLUDE: COMPLEX WASTE PRODUCTS, FERROUS METALS, FOOD AND BEVERAGE, INDUSTRY WASTES, GLASS AND CERAMICS, HEAT INORGANIC MATERIALS, NATURAL PRODUCTS, NONFERROUS METALS, ORGANIC MATERIALS, PAPER AND WOOD MILL WASTES, AND PLASTICS, FIBER, AND RUBBER.

AVAILABILITY: NOYES DATA CORP., NOYES BLDG., PARK RIDGE, NJ 07656 ($36.00)

IRIS ACCESSION NUMBER: EW005439

PUBLICATION DATE: 76

TITLE: ENVIRONMENTAL MONITORING.

PERSONAL AUTHOR: (EDITOR) MILLER, STANTON S.

DESCRIPTOR: AIR POLLUTION CONTROL; *ENVIRONMENTAL INFLUENCES; EQUIPMENT; *GLOBAL APPROACH; INSTRUMENTATION; LABORATORY PROCEDURES; *MEASUREMENT; NATURAL RESOURCE; *POLLUTION; *RESEARCH; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 197P.

ABSTRACT: AS PART OF A CONTINUING SERIES, THIS BOOK CONTAINS A COLLECTION OF ARTICLES AND EDITORIALS WHICH HAVE APPEARED IN ENVIRONMENTAL SCIENCE AND TECHNOLOGY FROM 1973 TO MID-1976. THESE ARTICLES ARE PROVIDED TO HELP READERS BECOME FAMILIAR WITH THE ADVANCEMENTS WHICH HAVE OCCURRED IN THE ENVIRONMENTAL DECADE OF THE 70'S. INSTRUMENTS, TECHNIQUES, AND APPLICATIONS RELATED TO AIR AND WATER POLLUTION CONTROL ARE DISCUSSED ON A NATIONAL AND INTERNATIONAL SCALE.

AVAILABILITY: AMERICAN CHEMICAL SOCIETY, 1155 SIXTEENTH ST., NW, WASHINGTON, D.C. 20036 ($13.50)

IRIS ACCESSION NUMBER: EW005440

TITLE: RIVAL WORLD.

DESCRIPTOR: AUDIOVISUAL AIDS; *AGRICULTURAL PRODUCTION; *ENTOMOLOGY; ENVIRONMENT; *FILMS; INSECTICIDES; *INSTRUCTIONAL MATERIALS; JUNIOR HIGH SCHOOLS; *PESTICIDES; PUBLIC HEALTH; *SECONDARY EDUCATION; *WORLD PROBLEMS

DESCRIPTIVE NOTE: 23MINUTES

ABSTRACT: THIS 23 MINUTE COLOR FILM WAS PRODUCED IN COOPERATION WITH THE WORLD HEALTH ORGANIZATION AND THE FOOD AND AGRICULTURE ASSOCIATION OF THE UNITED NATIONS. THE PRINCIPAL THEME OF THIS FILM IS 'MAN VERSUS THE INSECT'. THE FILM VERY BROADLY TOUCHES UPON MANY ASPECTS OF THE WORLD OF INSECTS INCLUDING: 1) PREDATOR/PREY RELATIONSHIPS; 2) METAMORPHOSIS AND DEVELOPMENTAL STAGES; 3) PROTECTIVE COLORATION AND BEHAVIOR; 4) NATURAL POPULATION BALANCES; 5) AND RELATIVE SIZE AND NUMBERS OF INSECTS. THE FILM SHOWS SEVERAL SPECIES OF INSECTS THAT ARE VECTORS FOR HUMAN AND LIVESTOCK DISEASES AND IT OFTEN SHOWS THE RESULTS OF THOSE DISEASES-BLINDNESS, ELEPHANTIASIS, MALARIA, AND SLEEPING SICKNESS. MANY OF THE SCENES FROM THE FILM ARE TAKEN FROM AROUND THE WORLD FROM AREAS WHERE INSECT PROBLEMS ARE SEVERE. ABOUT HALF OF THE FILM IS DEVOTED TO MAN'S COMPETITION WITH INSECTS FOR CULTIVATED CROPS: IN PARTICULAR THE LOCUST PROBLEM IN AFRICA. SCENES SHOW AERIAL SPRAYING AT LOCUST SWARMS WITH INSECTICIDE BUT NO MENTION IS MADE OF THE ENVIRONMENTAL TRADE-OFFS ASSOCIATED WITH SUCH SPRAYING. THE FILM DEPICTS INSECTS AS THE DEADLY ENEMY TO BE DESTROYED WITH THE IMPLICATION THAT INSECTICIDES ARE MAN'S ONLY HOPE IN THIS WAR.

AVAILABILITY: SHELL FILM LIBRARY, 1433 SADLIER CIRCLE, WEST DR., INDIANAPOLIS, IN 46230

INSTITUTION NAME: SHELL FILM LIBRARY.

IRIS ACCESSION NUMBER: EW005441

PUBLICATION DATE: 77

TITLE: CHEMICAL ANALYSIS OF ORGANOMETALLIC COMPOUNDS.

PERSONAL AUTHOR: CROMPTON, F. R.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *CHEMICAL ANALYSIS; *CHEMISTRY; HIGHER EDUCATION; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; *METALS; *ORGANIC COMPOUNDS; *PESTICIDES

DESCRIPTIVE NOTE: 432P.

ABSTRACT: THIS IS VOLUME 5 OF A SERIES ON THE ANALYTICAL CHEMISTRY OF THE ORGANOMETALLIC COMPOUNDS OF ALL THE ELEMENTS IN THE PERIODIC TABLE. THIS VOLUME COVERS THE GROUP 6 AND 7 ELEMENTS: CHROMIUM, MOLYBDENUM, TUNGSTEN, URANIUM, SELENIUM, TELLURIUM, MANGANESE, IRON, COBALT, NICKEL AND THE PLATINUM GROUP. ALSO INCLUDED ARE CHAPTERS DEALING WITH THE ORGANOMETALLIC COMPOUNDS OF ALUMINIUM AND ZINC. EACH CHAPTER STARTS WITH A DISCUSSION OF THE DETERMINATION OF ELEMENTS AND OF FUNCTIONAL GROUPS. FOLLOWING THIS THERE ARE VARIOUS OTHER SECTIONS COMPRISING DIFFERENT TECHNIQUES FOR ANALYSIS OF DIFFERENT CLASSES OF COMPOUNDS OF THE ELEMENT. WITH MOST ELEMENTS GAS CHROMATOGRAPHY HAS BEEN APPLIED AND THIS IMPORTANT TECHNIQUE IS DISCUSSED IN DETAIL IN A SEPARATE SECTION, AS ARE THE VARIOUS SPECTROSCOPIC TECHNIQUES. DETAILED PROCEDURES ARE PRESENTED WHICH SHOULD ENABLE THE READER TO APPLY THE METHODS WITHOUT FURTHER REFERENCE TO THE ORIGINAL SOURCE.

AVAILABILITY: ACADEMIC PRESS, 111 FIFTH AVE., NEW YORK, NY 10003 ($46.00)

IRIS ACCESSION NUMBER: EW005442

TITLE: THE HOUSEHOLD POLLUTANTS GUIDE.

PERSONAL AUTHOR: (EDITOR) FRITSCH, ALBERT J.

DESCRIPTOR: AIR POLLUTION CONTROL; CHEMICAL REACTIONS; CLEANING; *ENVIRONMENTAL EDUCATION; ENVIRONMENTAL INFLUENCES; *FAMILY ENVIRONMENT; *POLLUTION; PUBLIC HEALTH; *REFERENCE MATERIALS; *SAFETY; WATER POLLUTION CONTROL

ABSTRACT: THIS MANUAL PROVIDES INFORMATION TO HELP THE HOMEMAKER DETECT, UNDERSTAND, AND SUBSTITUTE FOR HARMFUL HOUSEHOLD MATERIALS. IN CHAPTER ONE A METHOD IS DETAILED FOR DETECTION OF HARMFUL POLLUTANTS. CHAPTER TWO DESCRIBES A SERIES OF POLLUTANT CATEGORIES AND GIVES SELECTED AVAILABLE INFORMATION FOR TOXIC EFFECTS OF MANY HOUSEHOLD MATERIALS AND PRACTICES. TOPICS INCLUDE: AEROSOL SPRAYS; FURNITURE AND FLOOR POLISHES; DETERGENTS; OVEN AND OTHER CLEANERS; MOTOR

VEHICLE PRODUCTS; UTENSIL COATINGS; HOBBIES, ARTS, AND CRAFTS; DECORATIONS; AND PET WASTES. EACH SECTION ALSO DISCUSSES SUBSTITUTES AND REMEDIES FOR THE SPECIFIC PROBLEM AREAS. A LISTING BY STATE OF FEDERAL INFORMATION CENTERS IS PROVIDED IN THE APPENDIX.

AVAILABILITY: ANCHOR BOOKS, DOUBLEDAY 8 CO., INC., 501 FRANKLIN AVE., GARDEN CITY, KY 11530 ($3.50)

IRIS ACCESSION NUMBER: EW005443

PUBLICATION DATE: 74

TITLE: ELEMENTS OF ENVIRONMENTAL HEALTH.

PERSONAL AUTHOR: NEWTON, DAVID F.

DESCRIPTOR: *DISEASE CONTROL; *ENVIRONMENT; *HEALTH EDUCATION; HIGHER EDUCATION; *INSTRUCTIONAL MATERIALS; METALS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; *PUBLIC HEALTH; WASTEWATER TREATMENT; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 327P.

ABSTRACT: ELEMENTS OF ENVIRONMENTAL HEALTH EXPLAINS THE NATURE AND SCOPE OF THOSE PHYSICAL HAZARDS IN THE ENVIRONMENT WHICH MAY UNFAVORABLY AFFECT HUMAN HEALTH, AND SCIENTIFIC PRINCIPLES AND TECHNOLOGICAL METHODS WHICH MAY BE EMPLOYED TO CONTROL THESE HAZARDS AND PREVENT ILLNESS AND INJURY. THE TEXT BEGINS WITH A GENERAL OVERVIEW OF THE FIELD OF ENVIRONMENTAL HEALTH WHICH EXPLAINS ITS CONTENT AND RATIONALE. THIS IS FOLLOWED BY AN EXPLANATION OF THE FACTORS INVOLVED IN DISEASE CAUSATION AND THE MEANS BY WHICH THE DISEASE PROCESS CAN BE HALTED. THE SUBSEQUENT CHAPTERS DESCRIBE SPECIFIC ENVIRONMENTAL HEALTH ACTIVITIES AND CONCERNS. THE CLOSING CHAPTERS ILLUSTRATE THE RELATIVE IMPORTANCE OF SUCH ACTIVITIES IN SELECTED MANMADE ENVIRONMENTS AND THE ROLE OF THE GOVERNMENT IN ADMINISTERING PROGRAMS TO ENSURE A SAFE ENVIRONMENT. THE BOOK IS WRITTEN PRIMARILY AS A COLLEGE-LEVEL TEXT SUITABLE FOR USE IN INTRODUCTORY ENVIRONMENTAL HEALTH COURSES. IT SHOULD ALSO BE SUITABLE AS A TEXT OR SUPPLEMENTAL READING IN HIGH SCHOOL SCIENCE AND HEALTH CLASSES.

AVAILABILITY: CHARLES MERRILL PUB. CO., 1300 ALUM CREEK DR., COLUMBUS, OHIO 43216 ($14.95)

IRIS ACCESSION NUMBER: EW005444

PUBLICATION DATE: 78

TITLE: ENVIRONMENTAL MEDIATION.

DESCRIPTOR: *ENVIRONMENT; GOVERNMENT; *INDUSTRY; *POLLUTION; *PUBLIC HEALTH; *ENVIRONMENTAL MEDIATION

DESCRIPTIVE NOTE: 55P.

ABSTRACT: THE MAIN POINTS RAISED AT THIS CONFERENCE ARE THE FOLLOWING: ENVIRONMENTAL MEDIATION AND RELATED TECHNIQUES OFFER PROMISING NEW APPROACHES TO ENVIRONMENTAL DECISION-MAKING. THEY REPRESENT A NEW ADDITION TO THE DECISION-MAKING TOOL KIT, NOT A SUBSTITUTION FOR OTHER PROCESSES. ENVIRONMENTAL MEDIATORS CAN LEARN MUCH FROM THE EXPERIENCE OF LABOR MEDIATORS. CONFLICT RESOLUTION IS NOT AN END TO ITSELF; RATHER, IT IS A MEANS TO SOUND ENVIRONMENTAL DECISION-MAKING. OTHER TOPICS DISCUSSED ARE: CATEGORIES OF DISPUTES APPROPRIATE FOR MEDIATION, NECESSARY QUALIFICATIONS FOR ENVIRONMENTAL MEDIATORS, THE TIME FOR MEDIATION, THE ROLE OF THE MEDIATOR, PUBLIC ACCESSIBILITY, AND OTHERS. SEVEN CASE HISTORIES ARE INCLUDED.

AVAILABILITY: RESOLVE, 360 BRYANT ST., PALO ALTO, CA 95301 ($3.00)

INSTITUTION NAME: RESOLVE, CENTER FOR ENVIRONMENTAL CONFLICT RESOLUTION.

IRIS ACCESSION NUMBER: EW005445

PUBLICATION DATE: 78

TITLE: ENVIRONMENTAL HEALTH PLANNING.

PERSONAL AUTHOR: FITZPATRICK, MALCOLM S.

DESCRIPTOR: COMMUNITY HEALTH; ECOLOGY; *ENVIRONMENT; ENVIRONMENTAL EFFECT; EVALUATION; *INSTRUCTIONAL MATERIALS; LAND USE; *MANAGEMENT; *PLANNING; *POST SECONDARY EDUCATION; *PUBLIC HEALTH; QUALITY; URBAN AREAS

DESCRIPTIVE NOTE: 265P.

ABSTRACT: THIS BOOK DESCRIBES THE BASIC PHILOSOPHY OF ENVIRONMENTAL HEALTH PLANNING, THE CRITERIA BY WHICH IT COULD BE IMPLEMENTED OR BY WHICH PROJECTS COULD BE EVALUATED, AND APPLIES THESE CRITERIA TO PROPOSED PROJECTS IN ORDER TO DEMONSTRATE THAT THE CRITERIA CAN BE USED AS PRAGMATIC PLANNING AND EVALUATION TOOLS. THE BOOK ALSO DESCRIBES THE BREADTH AND DEPTH OF INFORMATION RELATED TO ENVIRONMENTAL HEALTH PLANNING, PROVIDES A FRAMEWORK BY WHICH THIS INFORMATION CAN BE USED, AND DEMONSTRATES THE PROBABLE LIABILITIES AND BENEFITS OF THE FIRST TEN FEDERALLY-ASSISTED NEW TOWNS HAVING ENVIRONMENTAL IMPACT STATEMENTS, AND EVALUATES THE CONTENT OF THESE STATEMENTS IN TERMS OF THEIR USE IN PLANNING DECISIONS.

AVAILABILITY: BALLINGER PUB. CO., 17 DUNSTER ST., HARVARD SQ., CAMBRIDGE, MA 02138 ($16.50)

IRIS ACCESSION NUMBER: EW005446

PUBLICATION DATE: 78

TITLE: ENVIRONMENTAL POLLUTANTS DETECTION AND MEASUREMENT.

PERSONAL AUTHOR: TORIBARA, TAFT Y.; AND OTHERS

DESCRIPTOR: AIR POLLUTION CONTROL; BIOLOGY; *CHEMICAL

ANALYSIS; CHEMISTRY; CONFERENCES; *ENVIRONMENT; LABORATORY PROCEDURES; *MEASUREMENT TECHNIQUES; *POLLUTION; PUBLIC HEALTH; RESEARCH; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 500P.

ABSTRACT: THIS DOCUMENT REPORTS ON THE FINDINGS OF THE 10TH INTERNATIONAL CONFERENCE ON ENVIRONMENTAL TOXICITY HELD AT THE UNIVERSITY OF ROCHESTER. TOPICS IN THIS BOOK INCLUDE: SPECIFICATION OF ANALYTICAL PROBLEMS; FAMILIAR PRINCIPLES; METHODS FOR FIELD USE; HIGH SPATIAL RESOLUTION MICROPROBE METHODS; AND PHYSICAL ANALYTICAL METHODS. EACH OF THE PAPERS PRESENTED AT THE CONFERENCE IS ABSTRACTED AND ACCOMPANIED BY REFERENCES AND APPENDICES AS APPROPRIATE.

AVAILABILITY: PLENUM PUB. CORP., 227 WEST 17TH ST., NEW YORK, NY 10011 ($42.50)

IRIS ACCESSION NUMBER: EW005447

TITLE: PERCEIVING ENVIRONMENTAL QUALITY.

PERSONAL AUTHOR: (EDITOR) CRAIK, KENNETH H.; AND OTHERS

DESCRIPTOR: AIR POLLUTION CONTROL; ECOLOGY; *ENVIRONMENT; *ENVIRONMENTAL CRITERIA; *MEASUREMENT; *PERCEPTION; RECREATION; *RESEARCH; RESIDENTIAL PATTERNS; STANDARDS; WATER RESOURCES; *ENVIRONMENTAL QUALITY

ABSTRACT: THIS PUBLICATION REPORTS ON A SERIES OF RESEARCH WORKSHOPS THAT EXAMINED THE ROLE ENVIRONMENTAL PERCEPTION PLAYS IN A COMPREHENSIVE SYSTEM OF INDICES FOR ASSESSING AND MONITORING TRENDS IN ENVIRONMENTAL QUALITY. SECTION I PRESENTS AN INTRODUCTION TO ENVIRONMENTAL QUALITY INDICES. SECTIONS II, III, AND IV ARE DEVOTED TO SCENIC AND RECREATIONAL ENVIRONMENTS; RESIDENTIAL AND INSTITUTIONAL ENVIRONMENTS; AND AIR, WATER, AND SONIC ENVIRONMENTS. SECTION V INTEGRATES THE OVERLAPPING RESEARCH NEEDS OF THE THREE MAJOR WORKSHOP AREAS. EACH SECTION PROVIDES CHAPTER REVIEWS AND WORKSHOP SUMMARIES, INCLUDING A LIST OF RESEARCH NEEDS.

AVAILABILITY: PLENUM PUB. CORP., 227 WEST 17TH ST., NEW YORK, NY 10011 ($22.50)

IRIS ACCESSION NUMBER: EW005448

PUBLICATION DATE: 71

TITLE: FITTING EQUATIONS TO DATA: COMPUTER ANALYSIS OF MULTIFACTOR DATA FOR SCIENTISTS & ENGINEERS.

PERSONAL AUTHOR: CUTHBERT, DANIEL; WOOD, FRED S.

DESCRIPTOR: *COMPUTER PROGRAMS; COMPUTERS; *DATA ANALYSIS; DATA PROCESSING; ENGINEERS; *INSTRUCTIONAL MATERIALS; *PROGRAMMING LANGUAGE; POST SECONDARY EDUCATION; *RESEARCH METHODOLOGY; *SCIENTIFIC RESEARCH; SCIENTISTS; STATISTICAL ANALYSIS; *STATISTICS

DESCRIPTIVE NOTE: 342P.

ABSTRACT: THIS BOOK DISCUSSES METHODS OF FITTING EQUATIONS TO MULTIFACTOR DATA FOR THE APPROPRIATE USE OF COMPUTER PROGRAMS BY RESEARCH SCIENTISTS AND ENGINEERS. IT INCLUDES NINE CHAPTERS. CHAPTER ONE IS AN INTRODUCTION WHICH HAS A FLOW DIAGRAM OF PROCEDURE USED. CHAPTER TWO DISCUSSES THE ASSUMPTION OF THE LEAST-SQUARES METHOD. CHAPTER THREE PRESENTS DIFFICULTIES ASSOCIATED WITH FITTING DATA WITH ONE INDEPENDENT VARIABLE. ADDITIONAL PROBLEMS ASSOCIATED WITH TWO OR MORE INDEPENDENT VARIABLES ARE ATTACKED IN CHAPTER FOUR. CHAPTER FIVE PRESENTS AN EXAMPLE OF FITTING AN EQUATION WITH THREE INDEPENDENT VARIABLES ASSUMED TO BE KNOWN. CHAPTER SIX DISCUSSES SELECTION METHODS OF THE MOST INFLUENTIAL INDEPENDENT VARIABLES. CHAPTER SEVEN PRESENTS SOME CONSEQUENCES OF THE DISPOSITION OF THE DATA POINTS. CHAPTER EIGHT DISCUSSES THE NESTED MULTIFACTOR DATA. IN CHAPTER NINE AN EXAMPLE OF NONLINEAR LEAST-SQUARES ESTIMATION IS GIVEN. MATHEMATICAL DERIVATIONS, EXAMPLES AND COMPUTER PRINTOUTS ARE PLACED IN APPENDICES AT THE END OF EACH CHAPTER. A GLOSSARY, A BIBLIOGRAPHY AND THE USER'S MANUAL OF THE COMPUTER LINEAR LEAST-SQUARES CURVE FITTING PROGRAM ARE ALSO PRESENTED AT THE END OF THE BOOK. THIS COMPUTER PROGRAM IS USED THROUGHOUT THE BOOK.

AVAILABILITY: JOHN WILEY & SONS, DEPT. 6043, ONE WILEY DR., SOMERSET, NJ 08873 ($26.25)

IRIS ACCESSION NUMBER: EW005449

PUBLICATION DATE: 75

TITLE: DATA ANALYSIS FOR SCIENTISTS AND ENGINEERS.

PERSONAL AUTHOR: MEYER, STUART L.

DESCRIPTOR: *DATA ANALYSIS; *ENGINEERS; HIGHER EDUCATION; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; RESEARCH DESIGN; RESEARCH METHODOLOGY; SCIENCE EDUCATION; SCIENTIFIC PERSONNEL; *SCIENTIFIC RESEARCH; *SCIENTIST; *STATISTICAL ANALYSIS

DESCRIPTIVE NOTE: 513P.

ABSTRACT: THIS BOOK IS INTENDED FOR PROFESSIONAL SCIENTIFIC INVESTIGATORS AS WELL AS FOR STUDENTS AS A GENERAL REFERENCE AND GUIDE. IT WAS WRITTEN FROM THE POINT OF VIEW OF THE PRACTITIONER OF DATA ANALYSIS, THAT IS, THE SCIENTIST OR ENGINEER USING THE TECHNIQUES. FIVE PARTS ARE PRESENTED IN THIS BOOK: (1) INTRODUCTION TO SCIENTIFIC MEASUREMENT; (2) INTRODUCTION TO GRAPHICAL TECHNIQUES AND CURVE FITTING; (3) PROBABILITY; (4) SOME PROBABILITY DISTRIBUTIONS AND APPLICATIONS; AND (5) STATISTICAL INFERENCE. PART ONE INCLUDES 10 CHAPTERS WHICH COVERS CONCEPTS SUCH AS EXPERIMENTAL ERRORS AND REJECTION OF DATA. PART TWO INCLUDES SIX CHAPTERS WHICH DISCUSS THE FUNCTIONS OF GRAPHICAL TECHNIQUES AND THEIR LIMITATIONS. PART THREE INCLUDES FIVE CHAPTERS WHICH PRESENT THE CONCEPT OF PROBABILITY. PART FOUR INCLUDES SEVEN CHAPTERS WHICH DISCUSS SOME PROBABILITY DISTRIBUTIONS SUCH AS THE BINOMIAL, NORMAL, AND CHI-SQUARE DISTRIBUTIONS. PART FIVE INCLUDES FIVE CHAPTERS THAT PRESENT SOME AREAS OF STATISTICAL INFERENCE SUCH AS ESTIMATION AND

HYPOTHESIS TESTING. THIS BOOK ALSO INCLUDES SEVERAL APPENDICES, STATISTICAL TABLES, GUIDE FOR FURTHER READING AND BIBLIOGRAPHY.

AVAILABILITY: JOHN WILEY 8 SONS, INC., DEPT 6043, ONE WILEY DR., SOMERSET, NJ 08873 ($21.95)

IRIS ACCESSION NUMBER: EW005450

PUBLICATION DATE: 75

TITLE: HANDBOOK OF ENGINEERING FUNDAMENTALS. 3RD ED.

PERSONAL AUTHOR: ESHBACK, OVID W.; SOUNDERS, MOTT

DESCRIPTOR: CHEMISTRY; COLLEGE SCIENCE; ELECTRONICS; *ENGINEERING; *INSTRUCTIONAL MATERIALS; MANUALS; MATHEMATICS; *PHYSICAL SCIENCES; RADIATION; REFERENCE MATERIALS; THERMODYNAMICS

DESCRIPTIVE NOTE: 1462P.

ABSTRACT: THIS HANDBOOK FOR ENGINEERS PROVIDES A REFERENCE FOR THE PRACTICING PROFESSIONAL. THE TEXT CONTAINS CHARTS, TABLES, AND INFORMATION ON: (1) THE PROPERTIES OF MATERIALS; (2) MATHEMATICAL AND PHYSICAL TABLES; (3) PHYSICAL UNITS AND STANDARDS (4) RADIATION; (5) AERONAUTICS AND (6) CHEMISTRY; (7) ASTRONAUTICS; (8) HEAT TRANSFER; (9) AUTOMATIC CONTROL; AND (10) ENGINEERING ECONOMY.

AVAILABILITY: JOHN WILEY 8 SONS, DEPT. 6043, ONE WILEY DR., SOMERSET, NJ 08875 ($33.50)

IRIS ACCESSION NUMBER: EW005451

PUBLICATION DATE: 77

TITLE: HANDBOOK FOR ENVIRONMENTAL PLANNING. THE SOCIAL CONSEQUENCES OF ENVIRONMENTAL CHANGE.

PERSONAL AUTHOR: (EDITOR) MCEVOY, III, JAMES; DIETZ, THOMAS

DESCRIPTOR: *DATA COLLECTION; DEMOGRAPHY; ECONOMICS; *ENVIRONMENT; *ENVIRONMENTAL INFLUENCES; *HIGHER EDUCATION; *INSTRUCTIONAL MATERIALS; LAND USE; LAWS; PLANNING; *SOCIAL TRENDS; TRANSPORTATION

DESCRIPTIVE NOTE: 323P.

ABSTRACT: THERE ARE SEVEN THEMATIC CHAPTERS IN THIS VOLUME, EACH DEALING WITH ONE BROAD CATEGORY OF SOCIAL IMPACTS. THEY INCLUDE LAW, DEMOGRAPHY, LAND USE, ECONOMICS, TRANSPORTATION, SOCIOCULTURAL, AND THE DISPLAY AND INTEGRATION OF INFORMATION. THE TEXT IS DESIGNED AS A FUNCTIONAL HANDBOOK WITH CROSS-REFERENCING TO PROVIDE GREATER UTILITY.

AVAILABILITY: JOHN WILEY 8 SONS, DEPT. 6043, ONE WILEY DR., SOMERSET, NJ 08875 ($23.50)

IRIS ACCESSION NUMBER: EW005452

PUBLICATION DATE: 76

TITLE: INTRODUCTION TO ENVIRONMENTAL REMOTE SENSING.

PERSONAL AUTHOR: BARRETT, E. C.; CURTIS, L. F.

DESCRIPTOR: CLIMATIC FACTORS; *DATA COLLECTION; ENVIRONMENTAL INFLUENCES; *INSTRUCTIONAL MATERIALS; LAND USE; *NATURAL RESOURCES; *PHOTOGRAPHY; *PHYSICAL ENVIRONMENT; *POST SECONDARY EDUCATION; RADIATION; RESEARCH; *TECHNOLOGY; URBAN AREAS

DESCRIPTIVE NOTE: 336P.

ABSTRACT: THIS TEXT PROVIDES AN INTRODUCTION TO MODERN REMOTE SENSING TECHNIQUES AND APPLICATIONS. IT PROVIDES INFORMATION ABOUT VARIOUS METHODS AND TYPES OF EQUIPMENT USED FOR REMOTE SENSING STUDIES. AFTER INITIAL EXAMINATION OF THE PHYSICAL PRINCIPLES ON WHICH REMOTE SENSING IS BASED, THE TREATMENT OF DATA FOR ANALYSIS AND INTERPRETATION IS DISCUSSED. THE APPLICATIONS EXAMINED INCLUDE STUDIES OF WEATHER ANALYSIS GLOBAL CLIMATILOGY, SOILS AND LANDFORMS, FORESTRY AND ECOLOGY, CROPS, AND URBAN AND RURAL LAND USE.

AVAILABILITY: JOHN WILEY AND SONS, DEPT. 6043, ONE WILEY DR., SOMERSET, NJ 08875 ($13.95)

IRIS ACCESSION NUMBER: EW005453

PUBLICATION DATE: 76

TITLE: TECHNIQUES OF ENVIRONMENTAL SYSTEMS ANALYSIS.

PERSONAL AUTHOR: PANTELL, R. H.

DESCRIPTOR: *CONSERVATION (CONCEPTS); COST EFFECTIVENESS; ECONOMICS; *ENVIRONMENTAL INFLUENCES; *MANAGEMENT; *MEASUREMENT; *NATURAL RESOURCES; POLLUTION; *SYSTEMS ANALYSIS

DESCRIPTIVE NOTE: 183P.

ABSTRACT: IN THIS TEXT VARIOUS ASPECTS OF SYSTEMS ANALYSIS AS THEY RELATE TO ENVIRONMENTAL PLANNING ARE PRESENTED. AN OVERVIEW OF SYSTEMS ANALYSIS IS PRESENTED IN THE FIRST CHAPTER. THE SECOND CHAPTER IS CONCERNED WITH ANALYSIS BY MEANS OF CONSERVATION EQUATIONS WHICH DESCRIBE THE RATE OF FLOW OF A COMMODITY INTO AND OUT OF A SYSTEM. CHAPTER 3 IS DEVOTED TO THE ECONOMIC ASPECTS OF ENVIRONMENTAL MANAGEMENT AND CHAPTER 4 DISCUSSES DECISION PROBLEMS ASSOCIATED WITH ENVIRONMENTAL MANAGEMENT.

AVAILABILITY: JOHN WILEY 8 SONS, DEPT. 6043, ONE WILEY DR., SOMERSET, NJ 08875 ($15.75)

IRIS ACCESSION NUMBER: EW005454
PUBLICATION DATE: 76

TITLE: CHEMICAL CARCINOGENS.

PERSONAL AUTHOR: SEARLE, CHARLES E.

DESCRIPTOR: *BIOLOGY; *CARCINOGENS; CHEMISTRY; *ENVIRONMENT; *EPIDEMIOLOGY; *LABORATORY TECHNIQUES; MICROBIOLOGY; *PHYSIOLOGY; TOXICITY; *TOXICOLOGY

DESCRIPTIVE NOTE: 788P.

ABSTRACT: THIS MONOGRAPH CONTAINS ACCOUNTS OF THE LATEST THEORIES OF CANCER CHEMISTRY AND BIOLOGY AND OF THE MAJOR HAZARDS IDENTIFIED SO FAR. IT CONTAINS 16 CHAPTERS ON BIOASSAYS AND TESTS; TUMOR-PROMOTING AND CO-CARCINOGENIC AGENTS; ENDOCRINE ASPECTS; CARCINOGENESIS BY ALKYLATING AGENTS; POLYNUCLEAR AROMATIC CARCINOGENS; SOOTS, TARS, AND OILS IN OCCUPATIONAL CANCER; ENVIRONMENTAL RESPIRATORY CARCINOGENESIS; AROMATIC AMINES; EPIDEMIOLOGY; LABORATORY HAZARDS; N-NITROSO COMPOUNDS; CARCINOGENS IN PLANTS AND MICROORGANISMS; THE BRACKEN CARCINOGEN; CARCINOGENS IN FOOD; ASBESTOS CARCINOGENESIS; AND THE METABOLISM OF CHEMICAL CARCINOGENS TO REACTIVE ELECTROPHILES AND THEIR MECHANISMS OF ACTION.

AVAILABILITY: AMERICAN CHEMICAL SOCIETY, 1155 SIXTEENTH ST., NW, WASHINGTON, D.C. 20036 ($67.50)

IRIS ACCESSION NUMBER: EW005455

PUBLICATION DATE: 78

TITLE: QUALITY ASSURANCE PRACTICES FOR HEALTH LABORATORIES.

PERSONAL AUTHOR: INHORN, STANLEY L.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; BACTERIA; BIOLOGY; *INSTRUCTIONAL MATERIALS; LABORATORY EQUIPMENT; *LABORATORY PROCEDURES; MICROBIOLOGY; *POST SECONDARY EDUCATION; *PUBLIC HEALTH; *QUALITY CONTROL; TOXICOLOGY; WATER ANALYSIS; *WASTEWATER TREATMENT; *WATER TREATMENT

DESCRIPTIVE NOTE: 1244P.

ABSTRACT: THIS BOOK PRESENTS PREVENTIVE, ASSESSMENT, AND CORRECTIVE ACTIVITIES FOR LABORATORY PROCESSES. IT INCLUDES BOTH OPERATING CONCEPTS AND GUIDELINES. CHAPTERS ARE PRESENTED ON THE FOLLOWING TOPICS: LABORATORY MANAGEMENT, LABORATORY EVALUATION AND CERTIFICATION, LABORATORY FACILITIES AND SERVICES, MEASUREMENT AND EVALUATION, DATA TRANSMISSION, AMBIENT AIR TESTING, ANATOMIC PATHOLOGY, BLOOD BANKING, CLINICAL CHEMISTRY, CYTOLOGY, ANALYTICAL FOOD CHEMISTRY, FOOD MICROBIOLOGY, HEMATOLOGY, IMMUNOLOGY, INDUSTRIAL HYGIENE, CLINICAL MICROBIOLOGY, RADIOCHEMISTRY, CLINICAL TOXICOLOGY, VIROLOGY, AND WATER AND WASTEWATER ANALYSIS.

AVAILABILITY: AMERICAN PUBLIC HEALTH ASSOC., INC., 1015 18TH STREET NW, WASHINGTON, D.C. 20036 ($40.00)

IRIS ACCESSION NUMBER: EW005456
PUBLICATION DATE: 77

TITLE: STRATEGY OF POLLUTION CONTROL.

PERSONAL AUTHOR: BERTHOUEX, P. MAC; RUDD, DALE F.

DESCRIPTOR: BIOLOGY; CHEMISTRY; ENERGY; *ENGINEERING; *ENVIRONMENTAL INFLUENCES; INDUSTRY; *INSTRUCTIONAL MATERIALS; POLICY FORMATION; *POLLUTION; *SYSTEMS APPROACH; *TECHNOLOGY; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 579P.

ABSTRACT: AS A BASIC TEXT IN ENVIRONMENTAL ENGINEERING THIS BOOK INTEGRATES PRINCIPLES APPLICABLE TO ALL AREAS OF ENVIRONMENTAL POLLUTION CONTROL. A REASONABLE AMOUNT OF TECHNICAL INFORMATION IS PROVIDED BUT THE BASIC DESIGN CONCEPTS ASSOCIATED WITH POLLUTION CONTROL SYSTEMS ARE STRESSED. THE FUNDAMENTAL PROBLEMS AND METHODS OF SOLUTION ARE PRESENTED IN CHAPTER 1. THE REMAINING CHAPTERS DEAL WITH MORE SPECIFIC AREAS, SUCH AS: ANALYSIS OF MATERIAL AND ENERGY FLOW; USE OF INDUSTRIAL CHEMISTRY; PROCESSING WITH LIVING ORGANISMS; SEPARATION SYSTEMS; SYSTEMS INTEGRATION; AND POLICY STUDIES.

AVAILABILITY: JOHN WILEY & SONS, DEPT. 6043, ONE WILEY DR., SOMERSET, NJ 08875 ($19.95)

IRIS ACCESSION NUMBER: EW005457

PUBLICATION DATE: 78

TITLE: REMOTE SENSING. PRINCIPLES AND INTERPRETATION.

PERSONAL AUTHOR: SABINS, JR., FLOYD F.

DESCRIPTOR: *DIGITAL COMPUTERS; ENVIRONMENTAL INFLUENCES; *LAND USE; *NATURAL RESOURCES; *PHOTOGRAPHY; RADAR; RESEARCH; *TECHNOLOGY; *REMOTE SENSING

DESCRIPTIVE NOTE: 426P.

ABSTRACT: THIS BOOK DISCUSSES THE PHYSICAL PRINCIPLES THAT CONTROL REMOTE-SENSING PROCESSES AND THE PRACTICAL INTERPRETATION OF THE IMAGERY FOR A VARIETY OF APPLICATIONS. CHAPTER 1 SUMMARIZES THE FUNDAMENTAL CHARACTERISTICS OF ELECTROMAGNETIC RADIATION BASIC TO ALL FORMS OF REMOTE-SENSING SYSTEMS INCLUDING: AERIAL PHOTOGRAPHY; MANNED SATELLITE IMAGERY; LANDSAT; THERMAL INFRARED; AND RADAR IMAGERY. EACH SYSTEM IS DISCUSSED IN FOUR SECTIONS; I.E. (1) THE PHYSICAL PROPERTIES AND ELECTROMAGNETIC INTERATIONS THAT CONTROL THE PROCESS; (2) DESIGN AND OPERATION OF THE SYSTEM; (3) CHARACTERISTICS OF IMAGES; AND (4) GUIDELINES FOR INTERPRETATION. THE REMAINING CHAPTERS DESCRIBE PRACTICAL APPLICATIONS OF REMOTE-SENSING TO RESOURCE EXPLORATION, ENVIRONMENTAL MONITORING; RECOGNITION OF NATURAL HAZARDS; AND COMPARISON OF DIFFERENT TYPES OF IMAGES.

AVAILABILITY: W. W. FREEMAN AND CO., 660 MARKET ST., SAN FRANCISCO, CA 94104 ($25.00)

IRIS ACCESSION NUMBER: EW005458
PUBLICATION DATE: 78

TITLE: PESTICIDES: PREPARATION AND MODE OF ACTION.

PERSONAL AUTHOR: CREMLYN, R

DESCRIPTOR: ACARICIDES; *CHEMISTRY; CHEMICAL REACTIONS; CHEMOSTERILANTS; *FUNGICIDES; FUMIGANTS; *HERBICIDES; *INSECTICIDES; *INSTRUCTIONAL MATERIALS; MOLLUSCICIDES; NEMATICIDES; ORGANIC CHEMICALS; *PESTICIDES; PHEROMONES; POST SECONDARY EDUCATION; RODENTICIDES; SEX ATTRACTANTS

DESCRIPTIVE NOTE: 240P.

ABSTRACT: THIS BOOK DISCUSSES THE GENERAL PRINCIPLES UNDERLYING CHEMICAL PESTICIDES, WITH A BRIEF HISTORY OF THEIR DEVELOPMENT. IT LISTS THE MAIN TYPES OF INSECTICIDES, HERBICIDES, AND FUNGICIDES, WITH A DISCUSSION OF THEIR CHEMICAL PREPARATION, USES, AND BIOCHEMICAL MODE OF ACTION. ACARICIDES, NEMATICIDES, FUMIGANTS, MOLLUSCICIDES, AND RODENTICIDES ARE ALSO COVERED, AND SOME NOVEL METHODS OF PEST CONTROL ARE DISCUSSED, SUCH AS USE OF JUVENILE HORMONE MIMICS, SEX ATTRACTANTS, CHEMOSTERILANTS, AND MICROBIAL INSECTICIDES. THE BOOK ENDS WITH A DISCUSSION OF PESTICIDES IN THE ENVIRONMENT AND OF FUTURE DEVELOPMENTS IN PEST CONTROL CHEMICALS.

AVAILABILITY: JOHN WILEY AND SONS, INC., ONE WILEY DR., SOMERSET, NJ 08873 ($29.95)

IRIS ACCESSION NUMBER: EW005459

TITLE: AN INTEGRATED PEST MANAGEMENT PRIMER.

PERSONAL AUTHOR: HOELLER, KEITH, ED.

DESCRIPTOR: *AGRICULTURAL PRODUCTION; BIOLOGY; COST EFFECTIVENESS; *ENVIRONMENTAL INFLUENCES; ENTOMOLOGY; *INTEGRATED PEST MANAGEMENT; *INSTRUCTIONAL MATERIALS; *MANAGEMENT; *PESTS; PESTICIDES; PUBLIC HEALTH; *RESEARCH

DESCRIPTIVE NOTE: 13P.

ABSTRACT: THIS PRIMER PROVIDES A BASIC INTRODUCTION INTO THE PRINCIPLES OF INTEGRATED PEST MANAGEMENT (IPM). THE CONTENTS DISCUSS THE EVOLUTION, GOALS, BENEFITS AND IMPLEMENTATION OF I.P.M.

AVAILABILITY: SCIENCE AND EDUCATION ADMINISTRATION, US DEPARTMENT OF AGRICULTURE, WASHINGTON, DC 20250 (NO PRICE QUOTED)

IRIS ACCESSION NUMBER: EW005460

PUBLICATION DATE: MAR 77

TITLE: PESTICIDE TRAINING SERIES 2: FOREST PEST CONTROL.

PERSONAL AUTHOR: HAM, DONALD L.

DESCRIPTOR: AGRICULTURE; CHEMISTRY; ECOLOGY; ENVIRONMENT; ENVIRONMENTAL INFLUENCES; *FORESTRY; *HERBICIDES; *INSECTICIDES; *INSTRUCTIONAL MATERIALS; *PESTICIDES; *PLANT SCIENCE; POST SECONDARY EDUCATION; SOUTH CAROLINA; TECHNOLOGY; TREES

DESCRIPTIVE NOTE: 17P.

ABSTRACT: THIS DOCUMENT PRESENTS DISCUSSION OF THE USE OF CHEMICAL PEST CONTROL IN THE CONTEXT OF THE FOREST ENVIRONMENT OF THE SOUTHEAST. MAJOR FOREST TREE SPECIES ARE DESCRIBED. SEED ORCHARDS AND NURSERIES ARE DISCUSSED AS SPECIAL SUBJECTS OF PEST PROTECTION. FOREST TREE PESTS ARE DISCUSSED BY CATEGORY OF WEEDS, INSECTS, AND DISEASE. VERTEBRATE PESTS ARE ALSO DISCUSSED. PESTICIDE LABELING, ENVIRONMENTAL HAZARDS, TYPES OF PESTICIDES, AND METHODS OF APPLICATION ARE ALSO COVERED. SOURCES OF TECHNICAL ASSISTANCE ARE LISTED.

AVAILABILITY: COOPERATIVE EXTENSION SERVICE, CLEMSON UNIVERISTY, CLEMSON, SC 29631 ($1.50)

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*ENVIRONMENT	(42)	EW004176 EW004193 EW004205 EW004221 EW004233 EW004255 EW004262 EW004293 EW004296 EW004298 EW005288 EW005289 EW005292 EW005293 EW005296 EW005325 EW005329 EW005331 EW005333 EW005335 EW005339 EW005345 EW005352 EW005353 EW005354 EW005368 EW005369 EW005373 EW005385 EW005387 EW005391 EW005395 EW005415 EW005416 EW005430 EW005443 EW005444 EW005445 EW005446 EW005447 EW005451 EW005454
ENVIRONMENT	(27)	EW004192 EW004245 EW004292 EW004294 EW004295 EW004302 EW005295 EW005324 EW005326 EW005328 EW005330 EW005336 EW005340 EW005344 EW005347 EW005349 EW005350 EW005365 EW005367 EW005396 EW005417 EW005421 EW005425 EW005426 EW005438 EW005440 EW005460
ENVIRONMENTAL CONTROL	(1)	EW005392
*ENVIRONMENTAL CRITERIA	(1)	EW005447
ENVIRONMENTAL CRITERIA	(6)	EW004246 EW004249 EW005291 EW005379 EW005397 EW005437
*ENVIRONMENTAL EDUCATION	(1)	EW005442
*ENVIRONMENTAL EFFECT	(2)	EW005337 EW005374
ENVIRONMENTAL EFFECT	(2)	EW005389 EW005445
*ENVIRONMENTAL INFLUENCES	(21)	EW004150 EW004170 EW004182 EW004194 EW004261 EW004343 EW005291 EW005356 EW005358 EW005359 EW005376 EW005379 EW005390 EW005429 EW005433 EW005436 EW005439 EW005451 EW005453 EW005456 EW005459
ENVIRONMENTAL INFLUENCES	(30)	EW004109 EW004110 EW004151 EW004184 EW004190 EW004214 EW004250 EW004253 EW004282 EW004293 EW004301 EW004344 EW005334 EW005360 EW005362 EW005363 EW005364 EW005366 EW005371 EW005372 EW005373 EW005375 EW005380 EW005382 EW005386 EW005432 EW005442 EW005452 EW005457 EW005460
*ENVIRONMENTAL MEDIATION	(1)	EW005444
*ENVIRONMENTAL PROTECTION AGENCY	(3)	EW004226 EW004227 EW005295
ENVIRONMENTAL PROTECTION AGENCY	(3)	EW004124 EW004151 EW004239
*ENVIRONMENTAL QUALITY	(1)	EW005447
*ENVIRONMENTAL RESEARCH	(22)	EW004187 EW004248 EW004257 EW004259 EW004267 EW004272 EW004321 EW004327 EW004354 EW005289 EW005358 EW005360 EW005361 EW005364 EW005372 EW005382 EW005383 EW005385 EW005386 EW005397 EW005435 EW005438
ENVIRONMENTAL RESEARCH	(13)	EW004266 EW004318 EW005290 EW005294 EW005303 EW005328 EW005329 EW005330 EW005355 EW005356 EW005363 EW005375 EW005384
*ENVIRONMENTAL TECHNICIAN	(19)	EW005400 EW005401 EW005402 EW005403 EW005404 EW005405 EW005406 EW005407 EW005408 EW005409 EW005410 EW005411 EW005412 EW005413 EW005414 EW004108 EW004180 EW004229 EW004243
ENVIRONMENTAL TECHNICIANS	(2)	EW004239 EW004297
EPA	(1)	EW005421
*EPIDEMIOLOGY	(2)	EW005421 EW005454

EQUILIBRIUM (1) EW004341
*EQUIPMENT (24) EW004123 EW004134 EW004153 EW004159 EW004161 EW004171 EW004203
EW004208 EW004219 EW004220 EW004223 EW004232 EW004268 EW004269 EW004270
EW004280 EW004283 EW004291 EW004300 EW004336 EW005405 EW005406 EW005407
EW005408

EQUIPMENT (32) EW004119 EW004121 EW004128 EW004158 EW004160 EW004162 EW004163
EW004180 EW004181 EW004183 EW004205 EW004209 EW004210 EW004213 EW004217
EW004218 EW004224 EW004225 EW004231 EW004234 EW004235 EW004243 EW004245
EW004247 EW004275 EW004284 EW004287 EW004302 EW005297 EW005388 EW005430
EW005439

*EQUIPMENT EVALUATION (1) EW004203

EQUIPMENT MAINTENANCE (1) EW004283

*EQUIPMENT MANUFACTURERS (1) EW004245

*EQUIPMENT OPERATION (1) EW004276

EQUIPMENT SELECTION (1) EW004226

EQUIPMENT STANDARDS (1) EW004203

*EQUIPMENT UTILIZATION (3) EW004237 EW004240 EW004299

EQUIPMENT UTILIZATION (5) EW004236 EW004239 EW004273 EW005332 EW005385

*EROSION (8) EW004255 EW004258 EW004308 EW004315 EW004320 EW004324 EW004327
EW004334

EROSION (4) EW004256 EW004319 EW004321 EW004323

*EROSION CONTROL (2) EW004109 EW004110

EROSION CONTROL (1) EW004121

EUTROPHICATION (1) EW004317

*EVALUATION (3) EW004232 EW004269 EW005297

EVALUATION (2) EW004188 EW005445

*EVALUATION METHODS (1) EW004188

EXTERMINATION SERVICES (1) EW005301

*FACILITIES (10) EW004123 EW004145 EW004151 EW004204 EW004222 EW004230 EW004247
EW004250 EW004278 EW004280

FACILITIES (6) EW004149 EW004177 EW004183 EW004203 EW004277 EW004283

*FACILITY GUIDELINES (8) EW004121 EW004122 EW004127 EW004177 EW004210 EW004214 EW004218
EW004280

FACILITY GUIDELINES (5) EW004124 EW004225 EW004247 EW004263 EW004278

*FAMILY ENVIRONMENT (1) EW005442

FEDERAL AGENCIES (1) EW005330

*FEDERAL GOVERNMENT (5) EW004249 EW005295 EW005298 EW005299 EW005339
FEDERAL GOVERNMENT (1) EW004246
*FEDERAL LEGISLATION (1) EW004147
FEDERAL LEGISLATION (2) EW004145 EW004249
*FEDERAL POLICY (1) EW004124
*FEDERAL PROGRAMS (1) EW004151
*FEDERAL STATE RELATIONSHIP (1) EW004296
FEED INDUSTRY (1) EW005299
*FEEDS (1) EW005298
FERRIC CHLORIDE (1) EW004242
*FIELD CROPS (1) EW005334
FIELD CROPS (4) EW005290 EW005343 EW005367 EW005369
*FILMS (3) EW005397 EW005432 EW005440
FILMS (4) EW004273 EW004274 EW004275 EW004276
FILMSTRIPS (2) EW004251 EW004252
*FILTRATION (4) EW004212 EW004213 EW004237 EW004240
FILTRATION (1) EW004119
FINANCIAL PROBLEMS (1) EW004204
*FINANCIAL SUPPORT (1) EW004204
*FISH (1) EW004261
FISH (1) EW004254
FISHERIES (1) EW004318
*FLOCCULANTS (1) EW004157
FLOCCULATION (1) EW004268
FLOW MEASUREMENT (1) EW004108
*FLUORIDES (1) EW004267
FLUORIDES (1) EW004111
*FLUOROMETRY (1) EW004271
*FOOD (2) EW005299 EW005302
FOOD (1) EW004292
FOOD CHAINS (2) EW005304 EW005305
*FOOD PROCESSING (1) EW005434

*FOODS (1) EW005298
FORB CONTROL (1) EW005380

*FOREST PEST CONTROL (2) EW005329 EW005391

*FORESTRY (13) EW004254 EW004255 EW004256 EW004257 EW004258 EW004308 EW004315 EW004324 EW004327 EW004334 EW005300 EW005380 EW005460

FORESTRY (7) EW004259 EW004317 EW004318 EW004319 EW004321 EW004323 EW005371

*FORESTS (1) EW005425

FORESTS (1) EW005376

*FRUITS (1) EW005399

*FUELS (2) EW004150 EW004187

FUMIGANTS (1) EW005458

FUMIGATION (3) EW005428 EW005431 EW005434

*FUNGI (1) EW005350

*FUNGICIDES (3) EW005343 EW005396 EW005458

FUNGICIDES (2) EW005369 EW005427

GARDENING (1) EW005336

*GAS CHROMATOGRAPHY (1) EW004298

*GASES (1) EW005430

*GENETICS (3) EW005360 EW005366 EW005375

GENETICS (2) EW005356 EW005370

GEOGRAPHIC REGIONS (1) EW004216

GEOGRAPHY (2) EW004293 EW004301

GEOLOGY (1) EW004266

*GLOBAL APPROACH (1) EW005439

GLOBAL APPROACH (1) EW004182

GOVERNMENT (1) EW005444

GOVERNMENT ROLE (4) EW004230 EW005296 EW005299 EW005302

*GRAIN CROPS (1) EW005425

GRAIN CROPS (1) EW005374

GRAINS (1) EW005376

*GRANTS (1) EW004145

GRANTS (3) EW004124 EW004147 EW004239

*GRAPES	(1)	EW004186
GRASS	(1)	EW005391
GRASS CONTROL	(1)	EW005380
*GREASE	(1)	EW004165
*GREY WATER	(1)	EW004216
*GROUNDWATER	(2)	EW004181 EW004271
GROUND WATER RECHARGE	(1)	EW004282
GROWTH REGULANTS	(1)	EW005386
*GROWTH REGULATORS	(2)	EW005388 EW005389
*GUIDELINES	(7)	EW004151 EW004207 EW004236 EW004315 EW004317 EW004319 EW004334
GUIDELINES	(5)	EW004123 EW004181 EW004232 EW004324 EW005301
*GUIDES	(3)	EW005332 EW005357 EW005383
GUIDES	(2)	EW005331 EW005355
*HAZARDOUS MATERIALS	(1)	EW004260
HAZARDOUS WASTES	(1)	EW004161
*HAZARDS	(1)	EW005418
HAZARDS	(1)	EW005324
HEALTH	(3)	EW005322 EW005353 EW005418
*HEALTH EDUCATION	(1)	EW005443
*HEAVY METALS	(1)	EW004289
*HERBICIDES	(22)	EW005300 EW005323 EW005327 EW005331 EW005332 EW005338 EW005343 EW005345 EW005346 EW005347 EW005349 EW005364 EW005367 EW005380 EW005382 EW005391 EW005396 EW005398 EW005419 EW005426 EW005458 EW005460
HERBICIDES	(11)	EW005289 EW005304 EW005305 EW005322 EW005337 EW005341 EW005358 EW005386 EW005387 EW005425 EW005427
*HIGHER EDUCATION	(1)	EW005451
HIGHER EDUCATION	(5)	EW005341 EW005399 EW005441 EW005443 EW005449
HISTORY	(1)	EW004256
*HOME ENVIRONMENT	(1)	EW005301
*HOME STUDY	(3)	EW004192 EW004194 EW004201
HOME STUDY	(8)	EW004193 EW004195 EW004196 EW004197 EW004198 EW004199 EW004200 EW004202

*HORTICULTURE (2) EW005290 EW005333
HUMAN SETTLEMENTS (1) EW004176

*HYDRAULICS (3) EW004197 EW004250 EW004336

HYDRAULICS (4) EW004119 EW004148 EW004264 EW004273

*HYDROCARBONS (1) EW004191

*HYDROGEN PEROXIDE (1) EW004215

*HYDROLOGY (4) EW004253 EW004255 EW004257 EW004321

HYDROLOGY (1) EW004317

HYGIENE (1) EW005324

*ILLINOIS (1) EW005323

*INCINERATION (2) EW004128 EW004161

*INDIANA (2) EW005332 EW005333

*INDIVIDUALIZED INSTRUCTION (11) EW004192 EW004193 EW004194 EW004195 EW004197 EW004198 EW004199
EW004200 EW004201 EW004202 EW005409

INDIVIDUALIZED INSTRUCTION (15) EW004196 EW005400 EW005401 EW005402 EW005403 EW005404 EW005405
EW005406 EW005407 EW005408 EW005410 EW005411 EW005412 EW005413 EW005414

*INDUSTRIAL TECHNOLOGY (2) EW005437 EW005438

INDUSTRIAL WASTES (2) EW004227 EW004247

INDUSTRIAL WASTEWATER (1) EW004203

*INDUSTRY (8) EW004127 EW004246 EW004249 EW004294 EW004295 EW005324 EW005418
EW005444

INDUSTRY (5) EW004247 EW004265 EW005430 EW005437 EW005456

INFANT MORTALITY (1) EW004170

INFECTION (1) EW005343

*INFORMATION DISSEMINATION (1) EW004206

INFORMATION DISSEMINATION (1) EW004178

*INFORMATION SOURCES (1) EW004179

*INFORMATION TRANSFER (1) EW004206

INHALATION TOXICITY (1) EW005421

*INSECT CONTROL (1) EW005301

*INSECTICIDES (22) EW005290 EW005292 EW005301 EW005306 EW005338 EW005343 EW005351
EW005389 EW005390 EW005392 EW005394 EW005396 EW005403 EW005410 EW005411
EW005412 EW005415 EW005423 EW005428 EW005431 EW005458 EW005460

INSECTICIDES (24) EW005303 EW005304 EW005305 EW005336 EW005337 EW005360 EW005368
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EW005402 EW005404 EW005409 EW005413 EW005414 EW005422 EW005425 EW005427

EW005440

*INSECTS (6) EW005303 EW005377 EW005378 EW005392 EW005422 EW005424

INSECTS (3) EW005328 EW005329 EW005423

INSECT STERILANTS (1) EW005386

*INSPECTION (3) EW004121 EW004122 EW004123

*INSTRUCTIONAL MATERIALS (107) EW004108 EW004109 EW004110 EW004111 EW004119 EW004180 EW004183 EW004192 EW004194 EW004195 EW004196 EW004197 EW004198 EW004199 EW004200 EW004201 EW004202 EW004231 EW004251 EW004252 EW004273 EW004274 EW004275 EW004276 EW004292 EW004297 EW004300 EW005288 EW005290 EW005293 EW005300 EW005301 EW005323 EW005326 EW005327 EW005331 EW005332 EW005334 EW005335 EW005338 EW005341 EW005342 EW005343 EW005345 EW005346 EW005347 EW005348 EW005349 EW005351 EW005352 EW005353 EW005355 EW005356 EW005361 EW005363 EW005367 EW005368 EW005369 EW005370 EW005377 EW005378 EW005381 EW005383 EW005392 EW005393 EW005394 EW005395 EW005396 EW005397 EW005398 EW005399 EW005400 EW005401 EW005402 EW005403 EW005404 EW005405 EW005406 EW005407 EW005408 EW005409 EW005410 EW005411 EW005412 EW005413 EW005414 EW005417 EW005424 EW005427 EW005432 EW005434 EW005436 EW005437 EW005440 EW005441 EW005443 EW005445 EW005448 EW005449 EW005450 EW005451 EW005452 EW005455 EW005456 EW005458 EW005459 EW005460

INSTRUCTIONAL MATERIALS (4) EW004112 EW004193 EW005428 EW005431

*INSTRUMENTATION (12) EW004160 EW004190 EW004227 EW004232 EW004271 EW004275 EW004298 EW004339 EW004340 EW004341 EW004354 EW005299

INSTRUMENTATION (7) EW004231 EW004251 EW004338 EW004342 EW005298 EW005418 EW005439

*INTEGRATED CONTROL (1) EW005422

*INTEGRATED PEST MANAGEMENT (8) EW005353 EW005381 EW005383 EW005384 EW005422 EW005429 EW005433 EW005459

INTEGRATED PEST MANAGEMENT (1) EW005326

*INTERDISCIPLINARY APPROACH (2) EW004260 EW004293

*INTERGRATED PEST CONTROL (1) EW005392

*INTERIM DRINKING WATER (1) EW004111

INTERNATIONAL PROGRAMS (1) EW005302

*INTERNATIONAL RELATIONS (1) EW005385

*INVERTEBRATES (1) EW005423

INVERTEBRATES (1) EW005337

*IOWA (1) EW005322

*IRRIGATION (1) EW004216

*JOB SKILLS (20) EW004108 EW004119 EW004180 EW004223 EW004231 EW004243 EW004300 EW005400 EW005401 EW005402 EW005403 EW005404 EW005405 EW005406 EW005407 EW005408 EW005409 EW005410 EW005411 EW005412

JOB SKILLS (11) EW004111 EW004112 EW004120 EW004132 EW004229 EW004239 EW004263 EW004276 EW004297 EW005413 EW005414

LABELING (1) EW005434
*LABORATORY EQUIPMENT (1) EW004232
LABORATORY EQUIPMENT (1) EW005455
*LABORATORY MANUALS (1) EW005298
*LABORATORY METHODS (1) EW004288
LABORATORY METHODS (1) EW004300
*LABORATORY PROCEDURES (18) EW004111 EW004112 EW004119 EW004132 EW004156 EW004186 EW004226 EW004227 EW004231 EW004251 EW004252 EW004271 EW004275 EW004284 EW004285 EW004298 EW004342 EW005455
LABORATORY PROCEDURES (9) EW004108 EW004267 EW004338 EW004340 EW004341 EW005342 EW005361 EW005439 EW005446
*LABORATORY TECHNIQUES (16) EW004120 EW004187 EW004191 EW004223 EW004237 EW004291 EW004298 EW004343 EW005298 EW005299 EW005341 EW005387 EW005388 EW005436 EW005441 EW005454
LABORATORY TECHNIQUES (4) EW004251 EW004252 EW004271 EW005370

LAGOONS (1) EW004153
*LAKES (1) EW004317
LAND (1) EW004299
*LAND APPLICATION (7) EW004133 EW004147 EW004178 EW004205 EW004214 EW004238 EW004289
LAND APPLICATION (2) EW004158 EW004204
LAND MANAGEMENT (1) EW005330
*LAND USE (9) EW004110 EW004133 EW004178 EW004216 EW004233 EW004238 EW004302 EW005435 EW005457
LAND USE (17) EW004109 EW004147 EW004150 EW004167 EW004176 EW004214 EW004253 EW004286 EW004300 EW004317 EW005296 EW005325 EW005367 EW005380 EW005445 EW005451 EW005452
*LAWS (1) EW005295
LAWS (2) EW005337 EW005451
*LEAD (2) EW005293 EW005421
*LEGISLATION (2) EW004125 EW004249
LEGISLATION (11) EW004111 EW004127 EW004227 EW004238 EW004286 EW004293 EW004296 EW004343 EW005325 EW005339 EW005344
LENGTH (1) EW004274
*LIQUID WASTES 1) EW004247

*LITERATURE GUIDES	(1)	EW004293
LITERATURE REVIEWS	(1)	EW004272
LIVESTOCK	(3)	EW005352 EW005369 EW005374
*LOGGING	(2)	EW004257 EW004258
*LUBRICANTS	(2)	EW004165 EW004236
LUMBER INDUSTRY	(1)	EW005380
*MAINTENANCE	(9)	EW004108 EW004210 EW004236 EW004239 EW004263 EW004273 EW004279 EW004299 EW004336
MAINTENANCE	(6)	EW004319 EW004320 EW005405 EW005406 EW005407 EW005408
*MAMMALS	(2)	EW005352 EW005426
*MANAGEMENT	(26)	EW004110 EW004148 EW004158 EW004171 EW004239 EW004254 EW004255 EW004256 EW004257 EW004258 EW004259 EW004296 EW004308 EW004315 EW004317 EW004318 EW004319 EW004323 EW004324 EW005296 EW005297 EW005429 EW005433 EW005445 EW005453 EW005459
MANAGEMENT	(16)	EW004108 EW004109 EW004152 EW004163 EW004219 EW004225 EW004246 EW004263 EW004320 EW004321 EW005300 EW005301 EW005303 EW005329 EW005385 EW005434
*MANAGEMENT SYSTEMS	(2)	EW005383 EW005384
*MANPOWER DEVELOPMENT	(1)	EW004229
MANPOWER UTILIZATION	(1)	EW004278
*MANUALS	(2)	EW005299 EW005428
MANUALS	(2)	EW005431 EW005450
*MANUFACTURERS	(1)	EW004189
MANUFACTURING	(3)	EW004294 EW004295 EW005438
MANUFACTURING INDUSTRY	(1)	EW004189
*MAP SKILLS	(1)	EW005435
*MARINE BIOLOGY	(2)	EW004164 EW004250
MARKETING	(1)	EW004189
*MASS MOVEMENT	(1)	EW004258
MASS SPECTROMETRY	(1)	EW004298
*MATHEMATICAL MODELS	(4)	EW004262 EW004284 EW004287 EW005365
*MATHEMATICS	(2)	EW004196 EW004297
MATHEMATICS	(3)	EW004274 EW004344 EW005450
MATHEMATICS APPLICATIONS	(1)	EW004186

*MEASUREMENT (13) EW004211 EW004218 EW004223 EW004251 EW004271 EW004274 EW004338
EW004339 EW004341 EW004343 EW005439 EW005447 EW005453

MEASUREMENT (7) EW004186 EW004187 EW004342 EW005298 EW005299 EW005365 EW005368

*MEASUREMENT TECHNIQUES (10) EW004120 EW004267 EW004292 EW004298 EW004327 EW004354 EW005364
EW005382 EW005436 EW005446

MEASUREMENT TECHNIQUES (1) EW004253

*MEAT PACKING INDUSTRY (1) EW004163

*MECHANICAL EQUIPMENT (1) EW004236

MERCURY (1) EW004173

*METABOLITES (3) EW005415 EW005420 EW005426

METABOLITES (3) EW005306 EW005416 EW005423

*METAL INDUSTRY (1) EW005437

*METALS (3) EW004190 EW005324 EW005441

METALS (4) EW004111 EW004339 EW005437 EW005443

*METRIC SYSTEM (2) EW004208 EW004274

*METROPOLITAN AREAS (1) EW004247

*MICELLES (1) EW004340

*MICROBIOLOGY (9) EW004153 EW004195 EW004248 EW004252 EW004269 EW004292 EW004354
EW005348 EW005375

MICROBIOLOGY (7) EW004119 EW004182 EW004226 EW005395 EW005423 EW005454 EW005455

*MICROSCREENING (1) EW004153

*MISSISSIPPI (1) EW004321

*MISSOURI (1) EW004210

MITES (1) EW005424

*MODELS (3) EW004148 EW004246 EW004317

MODELS (2) EW004265 EW005306

MOLLUSCICIDES (2) EW005341 EW005458

*MONITORING (4) EW004160 EW004188 EW004231 EW004318

MOTOR VEHICLES (1) EW004177

*MOUNTAINS (1) EW004258

MULTIDISCIPLINARY APPROACH (1) EW004327

*MUNICIPALITIES (7) EW004145 EW004149 EW004152 EW004198 EW004265 EW004266 EW004282

MUNICIPALITIES (11) EW004121 EW004122 EW004146 EW004147 EW004148 EW004151 EW004155

EW004158 EW004199 EW004212 EW004301
NATIONAL FORESTS (2) EW004317 EW004318
NATIONAL POLICY (2) EW005288 EW005335
*NATURAL RESOURCES (11) EW004193 EW004212 EW004293 EW005291 EW005296 EW005371 EW005379 EW005435 EW005452 EW005453 EW005457
NATURAL RESOURCES (19) EW004109 EW004110 EW004152 EW004160 EW004190 EW004233 EW004259 EW004261 EW005289 EW005303 EW005322 EW005329 EW005355 EW005358 EW005359 EW005360 EW005363 EW005385 EW005438
NEMATICIDES (2) EW005369 EW005458
NEMATODES (1) EW005424
NITRATES (1) EW004111
*NITRIFICATION (1) EW004225
*NOISE (1) EW004336
*NONPOINT SOURCE POLLUTION (9) EW004308 EW004318 EW004320 EW004321 EW004323 EW004324 EW004327 EW004334 EW005295
NONPOINT SOURCE POLLUTION (1) EW005300
*NONPOINT SOURCES (3) EW004254 EW004255 EW004256
*NORTH CAROLINA (1) EW004315
*NOXIOUS WEEDS (1) EW005322
*NUTRIENTS (2) EW004317 EW004318
NUTRIENTS (2) EW004323 EW004324
NUTRITION (1) EW005356
*OCCUPATIONAL DISEASES (1) EW005356
OCCUPATIONAL INFORMATION (1) EW004243
*OCCUPATIONAL SAFETY (1) EW005324
*OCCUPATIONAL SAFETY AND HEALTH ACT (1) EW005430
*OCEANOLOGY (4) EW004164 EW004190 EW004250 EW004296
*ODOR CONTROL (1) EW004280
*ODORS (2) EW004215 EW004280
*ONSITE SYSTEMS (1) EW004230
*OPERATION ANALYSIS (1) EW004171
OPERATIONS ANALYSIS (1) EW004135
*OPERATIONS (LOGGING) (6) EW004308 EW004315 EW004318 EW004319 EW004320 EW004334

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 OPERATIONS (LOGGING)                     (3)     EW004321  EW004323  EW004324
*OPERATIONS (WASTEWATER)                  (38)    EW004108  EW004120  EW004133  EW004134  EW004136  EW004137  EW004157
                                          EW004158  EW004159  EW004165  EW004166  EW004167  EW004211  EW004214  EW004215
                                          EW004217  EW004218  EW004219  EW004221  EW004222  EW004225  EW004226  EW004234
                                          EW004235  EW004236  EW004238  EW004239  EW004241  EW004242  EW004244  EW004263
                                          EW004264  EW004278  EW004283  EW004287  EW004290  EW004299  EW004300

*OPERATIONS(WASTEWATER)                   (2)     EW004125  EW004129

 OPERATIONS (WASTEWATER)                  (4)     EW004243  EW004251  EW004252  EW004297

*OPERATIONS (WATER)                       (15)    EW004119  EW004155  EW004180  EW004183  EW004201  EW004210  EW004213
                                          EW004224  EW004226  EW004227  EW004231  EW004232  EW004240  EW004273  EW004156


 OPERATIONS (WATER)                       (2)     EW004212  EW004251

*OREGON                                   (3)     EW004255  EW004256  EW004257

*ORGANIC CARBON                           (1)     EW004224


*ORGANIC CHEMISTRY                        (7)     EW004272  EW004294  EW004295  EW004298  EW005289  EW005358  EW005386

 ORGANIC CHEMISTRY                        (8)     EW004111  EW004341  EW004342  EW005338  EW005342  EW005343  EW005372
                                          EW005373

*ORGANIC COMPOUNDS                        (6)     EW004173  EW004341  EW005346  EW005347  EW005348  EW005441

 ORGANIC COMPOUNDS                        (5)     EW004154  EW005341  EW005345  EW005349  EW005351

*ORGANIC DEBRIS                           (2)     EW004254  EW004256

*ORGANIC GARDENING                        (1)     EW005336

*ORGANIZATIONS                            (1)     EW005384

 ORGANIZATIONS (GROUPS)                   (1)     EW005295

*ORGANOCHLORINES                          (1)     EW005426

*ORGANOPHOSPHORUS                         (1)     EW005342

*ORNAMENTAL HORTICULTURE                  (2)     EW005323  EW005331

 ORNAMENTAL HORTICULTURE                  (2)     EW005367  EW005376

*OUTFALL SYSTEMS                          (1)     EW004250

*OXYGEN                                   (2)     EW004156  EW004235

 OXYGEN                                   (1)     EW004234

*OZONE                                    (1)     EW004221

*PACIFIC NORTHWEST                        (1)     EW004254

*PACKED-BED REACTOR                       (1)     EW004134

*PAPER INDUSTRY                           (3)     EW004251  EW004252  EW004342
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*PARASITES (1) EW005424
PARASITES (2) EW004182 EW005340

PATHOGENS (1) EW005340

*PCB'S (1) EW004342

*PENNSYLVANIA (1) EW004262

*PERCEPTION (1) EW005447

PERSISTENT PESTICIDES (1) EW005416

*PEST CONTROL (42) EW005292 EW005303 EW005326 EW005327 EW005328 EW005329 EW005336
EW005351 EW005353 EW005363 EW005377 EW005381 EW005383 EW005384 EW005390
EW005392 EW005393 EW005394 EW005395 EW005396 EW005400 EW005401 EW005402
EW005403 EW005404 EW005405 EW005406 EW005407 EW005408 EW005409 EW005410
EW005411 EW005412 EW005413 EW005414 EW005415 EW005416 EW005419 EW005422
EW005425 EW005428 EW005434

PEST CONTROL (2) EW005352 EW005431

*PESTICIDE APPLICATION SCHEDULES (1) EW005333

*PESTICIDES (87) EW004340 EW005288 EW005289 EW005290 EW005291 EW005292 EW005294
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EW005428 EW005431 EW005432 EW005433 EW005440 EW005441 EW005458 EW005460

PESTICIDES (28) EW004323 EW004324 EW005296 EW005300 EW005301 EW005323 EW005326
EW005331 EW005349 EW005356 EW005364 EW005380 EW005382 EW005383 EW005405
EW005406 EW005407 EW005408 EW005409 EW005410 EW005411 EW005413 EW005417
EW005422 EW005429 EW005434 EW005443 EW005459

*PESTS (11) EW005823 EW005328 EW005330 EW005337 EW005340 EW005359 EW005362
EW005363 EW005366 EW005424 EW005459

PESTS (3) EW005325 EW005376 EW005386

PH (1) EW004132

PHENOLS (1) EW005346

*PHENOXY ACIDS (1) EW005419

*PHEROMONES (3) EW005377 EW005389 EW005393

PHEROMONES (2) EW005396 EW005458

*PHOSPHORUS	(2)	EW004136	EW004242				
*PHOTOGRAPHY	(2)	EW005452	EW005457				
PHYSICAL CHEMISTRY	(1)	EW005338					
*PHYSICAL ENVIRONMENT	(1)	EW005452					
*PHYSICAL GEOGRAPHY	(1)	EW005435					
*PHYSICAL SCIENCES	(1)	EW005450					
*PHYSIOLOGY	(4)	EW005360	EW005372	EW005420	EW005454		
PHYSIOLOGY	(2)	EW005387	EW005426				
PHYTOTOXICITY	(1)	EW005420					
*PICLORAM	(1)	EW005382					
*PIPES	(5)	EW004202	EW004220	EW004260	EW004273	EW004279	
PIPES	(1)	EW004121					
*PLANNING	(3)	EW004179	EW005296	EW005445			
PLANNING	(5)	EW004296	EW004308	EW004319	EW005435	EW005451	
*PLANT DISEASES	(1)	EW005350					
PLANT GROWTH	(6)	EW005289	EW005290	EW005334	EW005358	EW005364	EW005432
*PLANT IDENTIFICATION	(1)	EW005322					
*PLANT PATHOLOGY	(4)	EW005334	EW005364	EW005365	EW005375		
PLANT PATHOLOGY	(2)	EW005429	EW005433				
*PLANT PHYSIOLOGY	(4)	EW005348	EW005354	EW005398	EW005399		
PLANT PHYSIOLOGY	(1)	EW005350					
PLANTS	(2)	EW005306	EW005362				
*PLANT SCIENCE	(1)	EW005460					
*PLASTIC PIPE	(1)	EW004279					
*PLUMBING	(1)	EW004202					
*POISON	(1)	EW005421					
POISON	(2)	EW005293	EW005420				
*POLICY ANALYSIS	(1)	EW004146					
POLICY FORMATION	(1)	EW005456					
*POLLUTANTS	(1)	EW005436					
POLLUTANTS	(1)	EW005370					

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*POLLUTION	(30)	EW004150 EW004260 EW004271 EW004294 EW004295 EW004296 EW004298 EW005292 EW005304 EW005305 EW005306 EW005325 EW005339 EW005348 EW005356 EW005361 EW005390 EW005416 EW005418 EW005427 EW005430 EW005436 EW005437 EW005438 EW005439 EW005442 EW005443 EW005444 EW005446 EW005456
POLLUTION	(14)	EW004148 EW004261 EW004280 EW004293 EW005288 EW005293 EW005294 EW005326 EW005327 EW005335 EW005344 EW005365 EW005370 EW005453
POLLUTION CONTROL TECHNOLOGY	(1)	EW004245
*POLYCHLORINATED BIPHENYLS	(1)	EW004342
POPULATION TRENDS	(1)	EW004176
*POST SECONDARY EDUCATION	(39)	EW004108 EW004109 EW004192 EW004194 EW004195 EW004196 EW004198 EW004200 EW004201 EW004229 EW005288 EW005293 EW005294 EW005300 EW005301 EW005327 EW005334 EW005335 EW005343 EW005347 EW005349 EW005351 EW005352 EW005367 EW005377 EW005381 EW005383 EW005393 EW005395 EW005399 EW005413 EW005417 EW005427 EW005432 EW005434 EW005445 EW005449 EW005452 EW005455
POST SECONDARY EDUCATION	(43)	EW004110 EW004111 EW004112 EW004180 EW004183 EW004193 EW004197 EW004199 EW004251 EW004292 EW005290 EW005331 EW005332 EW005353 EW005355 EW005363 EW005368 EW005370 EW005394 EW005396 EW005400 EW005401 EW005402 EW005403 EW005404 EW005405 EW005406 EW005407 EW005408 EW005409 EW005410 EW005411 EW005412 EW005414 EW005424 EW005428 EW005431 EW005436 EW005437 EW005443 EW005448 EW005458 EW005460
*POULTRY	(1)	EW004163
*PREDATORS	(1)	EW005424
PREDATORS	(1)	EW005340
*PRELIMINARY TREATMENT	(1)	EW004283
*PRETREATMENT	(1)	EW004127
PRIMARY TREATMENT	(1)	EW004108
*PRODUCTION TECHNIQUES	(2)	EW004294 EW004295
*PRODUCTIVITY	(1)	EW004246
*PRODUCTS ADVANCEMENT AWARDS PROGRAM	(1)	EW004245
PROFESSIONAL DEVELOPMENT	(1)	EW004229
PROFESSIONAL RECOGNITION	(1)	EW004245
*PROGRAM DESCRIPTIONS	(4)	EW004207 EW004209 EW004229 EW005294
*PROGRAM DEVELOPMENT	(1)	EW005384
*PROGRAM GUIDES	(1)	EW004151
*PROGRAMMED MATERIALS	(15)	EW005400 EW005401 EW005402 EW005403 EW005404 EW005405 EW005406 EW005407 EW005408 EW005409 EW005410 EW005411 EW005412 EW005413 EW005414

*PROGRAMMING LANGUAGE (1) EW005448
*PUBLIC EDUCATION (1) EW005344

*PUBLIC HEALTH (18) EW004170 EW004173 EW004181 EW004182 EW004184 EW004260 EW004292
EW005302 EW005304 EW005305 EW005326 EW005330 EW005356 EW005418 EW005443
EW005444 EW005445 EW005455

PUBLIC HEALTH (68) EW004111 EW004119 EW004132 EW004133 EW004134 EW004135 EW004136
EW004145 EW004147 EW004148 EW004154 EW004155 EW004161 EW004183 EW004192
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EW005385 EW005390 EW005400 EW005401 EW005402 EW005403 EW005404 EW005436
EW005438 EW005440 EW005442 EW005446 EW005459

*PUBLIC POLICY (1) EW005296

PUBLIC POLICY (1) EW005329

*PUBLIC RELATIONS (1) EW004208

*PUBLIC SAFETY (1) EW005397

*PUMPS (1) EW004336

PUMPS (2) EW004181 EW004236

*PYRETHROIDS (1) EW005394

*PYRETHRUM (2) EW005290 EW005371

QUALITY (1) EW005445

*QUALITY CONTROL (2) EW004226 EW005455

QUALITY CONTROL (1) EW005399

RADAR (1) EW005457

RADIATION (3) EW004182 EW005450 EW005452

RADIOACTIVITY (1) EW005417

RATING SCALES (1) EW004327

*RECREATION (1) EW004317

RECREATION (1) EW005447

*RECYCLING (10) EW004147 EW004167 EW004216 EW004222 EW004233 EW004265 EW004277
EW004301 EW004302 EW005438

RECYCLING (4) EW004150 EW004205 EW004230 EW004253

*REFERENCE BOOKS. (1) EW005350

*REFERENCE MATERIALS (3) EW005302 EW005438 EW005442

REFERENCE MATERIALS (2) EW005437 EW005450
REGIONAL PLANNING (1) EW004179

REGISTRATION (1) EW005339

REGULATION (1) EW005434

*REGULATIONS (11) EW004112 EW004124 EW004127 EW004151 EW004184 EW004227 EW004246
EW004282 EW004294 EW005302 EW005339

REGULATIONS (5) EW004111 EW004205 EW004249 EW005428 EW005431

REGULATORY PEST CONTROL (1) EW005339

*REMOTE SENSING (1) EW005457

*REPRODUCTION (BIOLOGY) (1) EW004261

*RESEARCH (32) EW004129 EW004184 EW004136 EW004146 EW004154 EW004165 EW004166
EW004170 EW004190 EW004191 EW004213 EW004221 EW004242 EW004253 EW004261
EW004262 EW004285 EW004286 EW004287 EW004288 EW004289 EW004290 EW005354
EW005365 EW005375 EW005380 EW005382 EW005429 EW005433 EW005439 EW005447
EW005459

RESEARCH (19) EW004125 EW004148 EW004153 EW004164 EW004167 EW004172 EW004230
EW004240 EW004241 EW004278 EW004284 EW004291 EW005302 EW005349 EW005388
EW005419 EW005446 EW005452 EW005457

RESEARCH DESIGN (1) EW005449

*RESEARCH METHODOLOGY (2) EW004344 EW005448

RESEARCH METHODOLOGY (2) EW005372 EW005449

*RESEARCH NEEDS (2) EW004259 EW004272

RESEARCH OPERATIONS (PESTICIDES) (1) EW005432

RESEARCH REPORTS (1) EW005326

RESEARCH REVIEWS (PUBLICATIONS) (1) EW004179

RESIDENTIAL PATTERNS (1) EW005447

RESIDUAL PESTICIDES (1) EW005416

*RESIDUE (1) EW005416

RESIDUE (1) EW005420

*RESINS (1) EW004154

*REST AREAS (1) EW004177

*RIVERS (1) EW004282

*ROADS (5) EW004257 EW004308 EW004319 EW004320 EW004334

ROADS (1) EW004323

*RODENTICIDES (1) EW005431

RODENTICIDES (1) EW005458

RODENTS (2) EW005330 EW005333

*RUNOFF (2) EW004148 EW004255

RUNOFF (1) EW004321

*RURAL AREAS (1) EW004181

*RURAL ENVIRONMENT (1) EW004230

*SAFETY (17) EW004162 EW004217 EW004276 EW005297 EW005324 EW005344 EW005366 EW005376 EW005409 EW005411 EW005412 EW005413 EW005414 EW005418 EW005430 EW005437 EW005442

SAFETY (14) EW004226 EW004234 EW004235 EW004300 EW005326 EW005330 EW005331 EW005333 EW005385 EW005405 EW005406 EW005407 EW005408 EW005410

*SAMPLING (2) EW004188 EW004226

SAMPLING (1) EW004300

*SANITATION (12) EW004172 EW004182 EW004192 EW004198 EW004199 EW004200 EW004230 EW004292 EW004297 EW004302 EW005418 EW005434

SANITATION (14) EW004170 EW004181 EW004184 EW004193 EW004194 EW004195 EW004196 EW004197 EW004201 EW004202 EW004219 EW004248 EW004301 EW005330

*SCREENING (1) EW004283

*SECONDARY EDUCATION (2) EW005397 EW005440

*SEDIMENT (1) EW004261

*SEDIMENTATION (1) EW004321

SEDIMENTATION (5) EW004254 EW004259 EW004323 EW004327 EW004334

*SEPTIC TANKS (1) EW004302

SEWAGE (1) EW004177

*SEWAGE TREATMENT (1) EW004248

SEWAGE TREATMENT (1) EW004354
*SEWER RATES (1) EW004207
*SEWERS (4) EW004217 EW004218 EW004277 EW004281
SEX ATTRACTANTS (1) EW005458
*SILVICULTURE (3) EW004315 EW004323 EW004324
SILVICULTURE (2) EW004308 EW005300
SITE DEVELOPMENT (2) EW004121 EW004122
*SITE PREPARATION (1) EW004321
*SLUDGE (14) EW004128 EW004158 EW004166 EW004167 EW004215 EW004219 EW004235 EW004241 EW004242 EW004244 EW004286 EW004289 EW004290 EW004299
SLUDGE (1) EW004234
*SOCIAL TRENDS (1) EW005451
*SOCIOLOGY (1) EW004146
*SODIUM (1) EW004170
SOIL (3) EW005339 EW005395 EW005432
*SOIL APPLICATION (1) EW005419
*SOIL CHARACTERISTICS (1) EW004327
*SOIL CONSERVATION (1) EW004327
SOIL CONSERVATION (1) EW004334
*SOILS (3) EW004109 EW004110 EW004258
SOILS (1) EW004302
*SOIL SCIENCE (3) EW004253 EW005364 EW005435
SOIL SCIENCE (3) EW005289 EW005358 EW005375
*SOURCEBOOKS (1) EW004293
SOUTH CAROLINA (1) EW005460
*SOYBEANS (1) EW005327
*SPECIFICATIONS (1) EW004232
*SPECTROMETRY (1) EW005361
*SPECTROPHOTOMETERS (1) EW004275
*SPECTROSCOPY (1) EW005388
*SPRAY EQUIPMENT (2) EW005405 EW005406
*SPRAYING (1) EW005300
SPRAYING (AERIAL) (1) EW005380

*SPRAY (MIST BLOWER) (1) EW005382
*STABILIZATION PONDS (1) EW004300

*STANDARDS (11) EW004121 EW004127 EW004164 EW004173 EW004184 EW004194 EW004249 EW004279 EW004323 EW004343 EW005430

STANDARDS (8) EW004122 EW004123 EW004156 EW004162 EW004165 EW004181 EW004246 EW005447

STATE LAWS (1) EW005322

*STATE OF THE ART REVIEWS (1) EW004272

*STATE PROGRAMS (1) EW004229

STATE PROGRAMS (2) EW005429 EW005433

*STATEWIDE PLANNING (2) EW004315 EW004334

*STATISTICAL ANALYSIS (2) EW004188 EW005449

STATISTICAL ANALYSIS (1) EW005448

*STATISTICAL DATA (1) EW004176

*STATISTICAL METHODS (1) EW004344

*STATISTICS (2) EW004176 EW005448

STATISTICS (1) EW005365

*STORMWATER MANAGEMENT MODEL (1) EW004148

*STREAMS (4) EW004254 EW004255 EW004256 EW004257

STREAMS (1) EW004259

*STRUCTURAL PEST CONTROL (1) EW005431

*SUBSIDIES (1) EW004145

*SULFIDES (1) EW004215

*SURFACE AERATORS (1) EW004203

*SURVEYS (1) EW004279

*SYNTHETIC FUELS (1) EW004150

*SYNTHETIC RESINS (1) EW004224

*SYSTEMS ANALYSIS (1) EW005453

*SYSTEMS APPROACH (1) EW005456

*TABLES (DATA) (1) EW004176

*TEACHING GUIDES (2) EW004110 EW004112

*TECHNICAL ASSISTANCE (1) EW004263

TECHNICAL EDUCATION (3) EW005300 EW005301 EW005437

*TECHNOLOGICAL ADVANCEMENT	(4)	EW004245 EW004277 EW004280 EW004283
TECHNOLOGICAL ADVANCEMENT	(3)	EW004178 EW004187 EW004281
*TECHNOLOGY	(32)	EW004125 EW004128 EW004129 EW004134 EW004135 EW004145 EW004147 EW004149 EW004150 EW004160 EW004161 EW004167 EW004220 EW004224 EW004225 EW004234 EW004235 EW004238 EW004240 EW004241 EW004244 EW004247 EW004250 EW004264 EW004281 EW004294 EW004295 EW005297 EW005303 EW005452 EW005456 EW005457
TECHNOLOGY	(29)	EW004133 EW004136 EW004158 EW004163 EW004172 EW004173 EW004187 EW004203 EW004205 EW004206 EW004208 EW004212 EW004213 EW004215 EW004216 EW004221 EW004233 EW004245 EW004246 EW004267 EW004270 EW004277 EW004280 EW004284 EW004292 EW004301 EW005429 EW005433 EW005460
*TERMITES	(1)	EW005428
*TEXTBOOKS	(10)	EW005326 EW005327 EW005341 EW005342 EW005343 EW005345 EW005346 EW005347 EW005349 EW005351
THERMAL POLLUTION	(1)	EW004324
*THERMAL REDUCTION SYSTEM	(1)	EW004247
THERMODYNAMICS	(2)	EW004341 EW005450
*THIOCYNATES	(1)	EW004187
*TITRATION	(2)	EW004120 EW004291
*TOXICITY	(6)	EW005324 EW005356 EW005370 EW005374 EW005421 EW005426
TOXICITY	(9)	EW004164 EW005292 EW005325 EW005390 EW005394 EW005395 EW005415 EW005420 EW005454
TOXIC MATERIALS	(2)	EW004249 EW004339
*TOXICOLOGY	(14)	EW004343 EW005294 EW005302 EW005304 EW005305 EW005306 EW005348 EW005370 EW005373 EW005415 EW005418 EW005420 EW005421 EW005454
TOXICOLOGY	(6)	EW005371 EW005372 EW005389 EW005417 EW005426 EW005455
*TOXIC SUBSTANCES	(4)	EW004343 EW005297 EW005304 EW005305
TOXIC SUBSTANCES	(2)	EW005302 EW005306
*TOXINS	(1)	EW005293
*TRACE METALS	(1)	EW004339
*TRAINING	(3)	EW004229 EW004239 EW005294
*TRAINING PROGRAMS	(1)	EW004198
TRANSPORTATION	(3)	EW004319 EW005344 EW005451
*TRAVEL	(1)	EW004177

TREES (1) EW005460

*TRICKLING FILTERS (1) EW004225

*TURBIDITY (1) EW004261

TURF (1) EW005376

*TURF MANAGEMENT (1) EW005323

UNITED STATES (1) EW004258

*URBAN AREAS (1) EW005296

URBAN AREAS (2) EW005445 EW005452

*URBAN ENVIRONMENT (2) EW004146 EW004148

*URBAN PROBLEMS (1) EW004148

URBAN PROBLEMS (1) EW004146

*UTILITIES (9) EW004152 EW004199 EW004200 EW004208 EW004209 EW004210 EW004212
EW004220 EW004266

UTILITIES (14) EW004153 EW004155 EW004159 EW004198 EW004201 EW004207 EW004222
EW004263 EW004268 EW004278 EW004279 EW004299 EW004301 EW005382

*VEGETABLES (2) EW005354 EW005399

*VENTILATION (1) EW005430

*VERTEBRATES (1) EW005423

VERTEBRATES (1) EW005337

*VIRUSES (2) EW004172 EW004292

VOCABULARY (1) EW005357

VOLUME (1) EW004274

*WASHINGTON, D.C. (1) EW004207

*WASTE DISPOSAL (27) EW004128 EW004133 EW004150 EW004158 EW004163 EW004205 EW004216
EW004219 EW004233 EW004238 EW004241 EW004244 EW004247 EW004250 EW004283
EW004286 EW004289 EW004294 EW004295 EW004299 EW004302 EW005297 EW005304
EW005417 EW005418 EW005427 EW005438

WASTE DISPOSAL (14) EW004146 EW004165 EW004176 EW004178 EW004214 EW004215 EW004230
EW004248 EW004277 EW004280 EW004290 EW004301 EW005305 EW005437

*WASTE DISPOSAL (OPERATIONS) (1) EW004161

*WASTES (1) EW004247

WASTES (4) EW004203 EW004248 EW004283 EW005297

*WASTEWATER (3) EW004177 EW004178 EW004342

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WASTEWATER                                (1)       EW004252

*WASTEWATER TREATMENT                     (71)      EW004108  EW004120  EW004121  EW004122  EW004123  EW004124  EW004125
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                                          EW004145  EW004147  EW004151  EW004153  EW004157  EW004159  EW004162  EW004164
                                          EW004165  EW004166  EW004167  EW004177  EW004178  EW004186  EW004189  EW004203
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                                          EW004264  EW004265  EW004268  EW004278  EW004280  EW004283  EW004285  EW004287
                                          EW004289  EW004290  EW004297  EW004299  EW004300  EW004302  EW004354  EW005455


 WASTEWATER TREATMENT                     (13)      EW004149  EW004158  EW004163  EW004179  EW004216  EW004227  EW004241
                                          EW004243  EW004244  EW004249  EW004277  EW004291  EW005443

*WATER ANALYSIS                           (3)       EW004111  EW004126  EW004132

 WATER ANALYSIS                           (2)       EW004112  EW005455

*WATER CONSERVATION                       (2)       EW004207  EW004282

*WATER COSTS                              (1)       EW004149

*WATER DEMAND                             (1)       EW004301

*WATER DISTRIBUTION                       (3)       EW004171  EW004180  EW004202

*WATER METERS                             (1)       EW004208

*WATER MONITORING                         (1)       EW004126

*WATER POLLUTION CONTROL                  (70)      EW004109  EW004110  EW004112  EW004124  EW004125  EW004126  EW004127
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 WATER POLLUTION CONTROL                  (91)      EW004108  EW004119  EW004120  EW004121  EW004123  EW004132  EW004133
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                                          EW004246  EW004247  EW004256  EW004263  EW004264  EW004273  EW004281  EW004284
                                          EW004285  EW004286  EW004287  EW004288  EW004289  EW004290  EW004291  EW004292
                                          EW004299  EW004300  EW004301  EW004302  EW004319  EW004341  EW004342  EW004343
                                          EW005293  EW005296  EW005304  EW005305  EW005306  EW005339  EW005370  EW005438
                                          EW005439  EW005442  EW005443  EW005456

 WATER POLLUTION CONTROL ACT AMENDMENTS   (1)       EW004218


*WATER QUALITY                            (24)      EW004124  EW004164  EW004184  EW004188  EW004194  EW004195  EW004227
                                          EW004254  EW004255  EW004261  EW004262  EW004267  EW004269  EW004271  EW004292
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EW004308 EW004315 EW004318 EW004321 EW004323 EW004324 EW004339 EW004341
EW004343

WATER QUALITY (29) EW004111 EW004112 EW004119 EW004149 EW004176 EW004190 EW004191
EW004192 EW004193 EW004196 EW004197 EW004222 EW004231 EW004256 EW004257
EW004270 EW004272 EW004277 EW004288 EW004293 EW004317 EW004320 EW004327
EW004334 EW004342 EW004344 EW004354 EW005304 EW005305

WATER QUALITY AMENDMENTS (1) EW004145

*WATER RATES (2) EW004149 EW004152

*WATER RESOURCES (19) EW004146 EW004150 EW004152 EW004154 EW004179 EW004181 EW004193
EW004233 EW004254 EW004255 EW004256 EW004257 EW004259 EW004260 EW004265
EW004266 EW004282 EW004301 EW004317

WATER RESOURCES (6) EW004180 EW004182 EW004253 EW004277 EW005296 EW005447

*WATER SHED MANAGEMENT (1) EW004259

*WATERSHEDS (4) EW004179 EW004253 EW004257 EW004321

*WATER SOFTENING (1) EW004155

WATER SOFTENING (1) EW004119

*WATER SUPPLY (19) EW004152 EW004154 EW004180 EW004183 EW004194 EW004200 EW004201
EW004206 EW004207 EW004208 EW004209 EW004210 EW004220 EW004260 EW004266
EW004259 EW004273 EW004279 EW004301

WATER SUPPLY (3) EW004160 EW004202 EW004253

*WATER TREATMENT (31) EW004112 EW004119 EW004132 EW004135 EW004150 EW004155 EW004171
EW004172 EW004173 EW004180 EW004181 EW004183 EW004198 EW004199 EW004201
EW004202 EW004206 EW004207 EW004213 EW004224 EW004229 EW004240 EW004268
EW004269 EW004270 EW004272 EW004284 EW004285 EW004291 EW004338 EW005455

WATER TREATMENT (6) EW004111 EW004149 EW004212 EW004226 EW004227 EW004286

WATER USEAGE (1) EW004177

*WATER WELLS (3) EW004181 EW004266 EW004282

*WEEDS (9) EW005322 EW005331 EW005332 EW005349 EW005363 EW005367 EW005380
EW005382 EW005425

WEEDS (6) EW005323 EW005328 EW005329 EW005333 EW005359 EW005366

WEIGHT (1) EW004274

*WELL WATER (1) EW004154

WILDLIFE (4) EW005304 EW005305 EW005325 EW005371

WILDLIFE MANAGEMENT (1) EW004176

*WINKLER TEST (1) EW004156

*WOODLOTS (1) EW004319

*WORK ENVIRONMENT (5) EW004160 EW004162 EW004217 EW004276 EW005437
*WORLD PROBLEMS (2) EW005397 EW005440

*ZINC (1) EW004285
ZOOLOGY (2) EW005330 EW005373
208 PLANNING (1) EW004250
208 PLANS (1) EW004323
*2,4-D (1) EW005382
2,4-DICHLOROPHENOXYACETIC ACID (1) EW005331